UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Principal Facts and Complete Bouguer Gravity Anomaly Map for the West Half of the Butte $1^{\circ} \times 2^{\circ}$ Quadrangle, Montana

by

Jerry H. Hassemer

Open-File Report 81-949

1981

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

Principal Facts and Complete Bouguer Gravity Anomaly Map for the West Half of the Butte 1° x 2° Quadrangle, Montana

by

Jerry H. Hassemer

Introduction

A gravity survey is being conducted by the U.S. Geological Survey in the Butte 1° x 2° quadrangle, Montana. This report presents the principal facts of gravity stations located on the west half of the quadrangle and a preliminary computer plotted complete Bouguer gravity anomaly map. This area is shown on figure 1. This work is being done in support of the Conterminous United States Mineral Appraisal Program (CUSMAP).

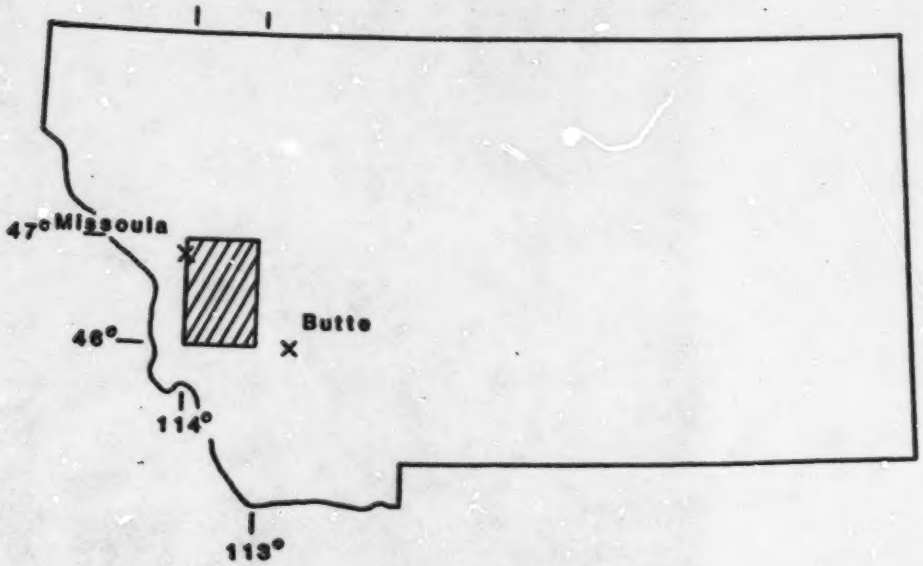


Figure 1.—Hatched rectangle shows area of the gravity survey discussed in this report.

Data Collection and Reduction

During the summers of 1979 and 1980, 962 gravity stations were measured by the author within the west half of the Butte 1° x 2° quadrangle. LaCoste and Romberg gravimeter G-2 was used at all stations. Observed gravity values are referenced to two gravity base stations of the World Relative Gravity Reference Network (Defense Mapping Agency Aerospace Center, 1974), one at Drummond , Montana, (ACIC code number 1209-0) and one at Butte, Montana, (ACIC code number 0443-0). Eight local bases have been established in or near the area for convenience and are referenced to the two DMA base stations. Data for the local bases are given in Appendix A.

Horizontal and vertical control for station locations were obtained from USGS topographic maps at scales of 1:24,000 and 1:62,500. Most stations were read at bench marks or spot elevations indicated on the maps. Elevations for a few stations were determined by interpolating between contour lines and with an altimeter. In areas covered by 1:62,500 scale maps, station elevations could be in error as much as 13 meters resulting in a possible 2 1/2 mgal (milligal) error in the Bouguer gravity anomaly at a density of 2.67 g/cm^3.

At stations where the topographic relief varied more than 0.67 meter from the station elevation within a 17 meter radius (outer zone B of Hammer, 1939) or more than two meters between 17 and 53 meters (zone C of Hammer, 1939) a terrain correction was estimated to be used in computing the complete Bouguer gravity anomaly.

Data reduction was accomplished using programs on a Honeywell Multics computer. Observed gravity values were calculated from meter readings using a program by R. R. Wahl and D. A. Dansereau (USGS, unpublished program) that also corrects for earth-tide and meter drift. A table of principal facts for the gravity stations is given as Table 1. This table was made by an

unpublished program by R. H. Godson (USGS). Theoretical gravity values are calculated using the 1967 formula of the Geodetic Reference System (International Association of Geodesy, 1971). Terrain corrections were computed for each station to a distance of 166.7 km using the method of Plouff (1977) with any estimated correction out to 53 meters being added to this. Earth curvature corrections and two complete Bouguer gravity anomalies for each station are also given by Godson's program.

The maximum terrain correction (36.55 mgal at a density of 2.67 g/cm^3) is for a station on top of Short Peak at 10,280 feet in the southeast corner of the area. The smallest terrain correction (0.35 mgal) is in Nevada Valley at the northeast corner of the area.

Other Data

Also given in Table 1 is data for 57 gravity stations other than the author's that were used in the preparation of the Complete Bouguer Gravity Anomaly Map, figure 2. The stations with an RS identification were read by Dolores M. Kulik (1979, unpublished data) while those with a D identification were read by Harold Kaufmann with LaCoste and Romberg gravimeter G-159 as part of a gravity survey for the Dillon CUSMAP (1979, unpublished data).

Complete Bouguer Gravity Anomaly Map

Figure 2 is a preliminary computer plotted complete Bouguer gravity anomaly map of the west half of the Butte 1^o x 2^o quadrangle at a density of 2.67 g/cm^3. The map was plotted using unpublished gridding and contour programs by M. W. Webring and R. H. Godson (USGS). The data was gridded with a 1 1/2 km spacing. Station locations are shown using different symbols for the author's data and that of Kulik's and Kaufmann's.

References

Defense Mapping Agency Aerospace Center, 1974, World Relative Gravity Reference Network, North America, Part 2: DMAAC Ref. Pub. No. 25, with supplement updating gravity values to the International Gravity Standardization Net 1971, 1635 p.

Hammer, S., 1939, Terrain corrections for gravimeter stations: Geophysics, v. 4, no. 3, p. 184-194.

International Association of Geodesy, 1971, Geodetic reference system, 1967: International Association of Geodesy, Special Publication No. 3, 115 p.

Plouff, D., 1977, Preliminary documentation for a Fortran program to compute gravity terrain corrections based on topography digitized on a geographic grid: U.S. Geological Survey Open-File Report No. 77-535, 45 p.

APPENDIX A

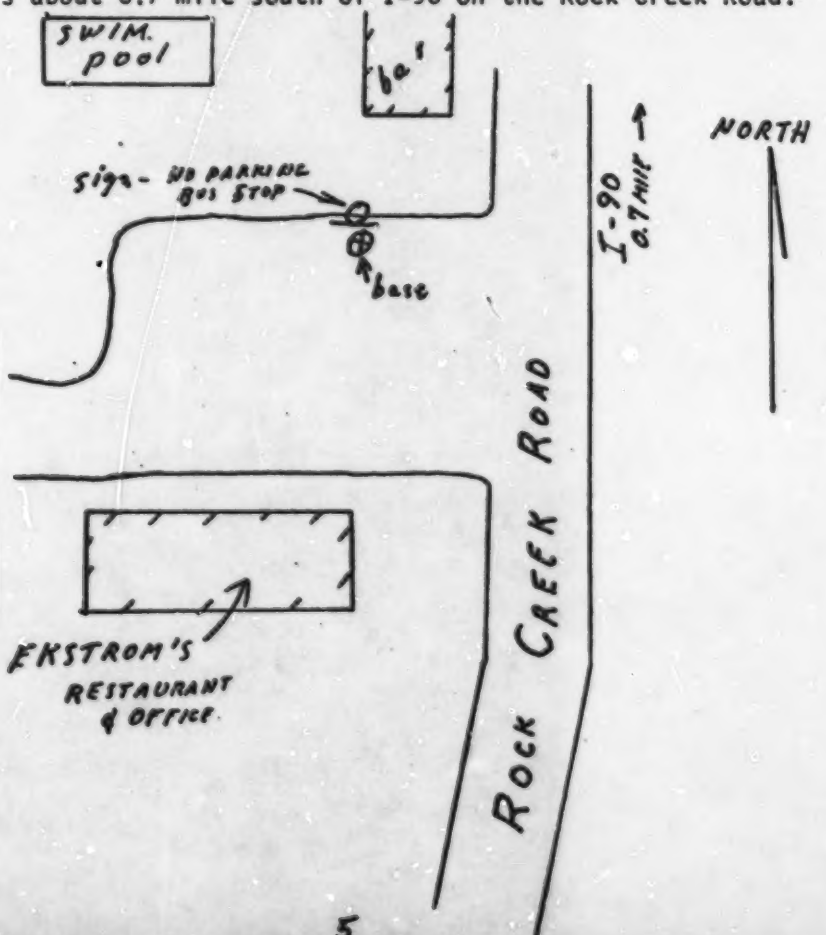
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Ekst	980386.15
NEAREST TOWN Clinton	LONGITUDE 113° 40.05'	LATITUDE 46°42.96'
ELEVATION 1091 m	TOPOGRAPHIC MAP(S) Ravenna 15 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/28/80	Hassemer	G-2	Drummond	980365.65

DESCRIPTION/SKETCH

Station is read on asphalt, north side of parking area at a "No Parking - Bus Stop" sign at Ekstrom's about 0.7 mile south of I-90 on the Rock Creek Road.



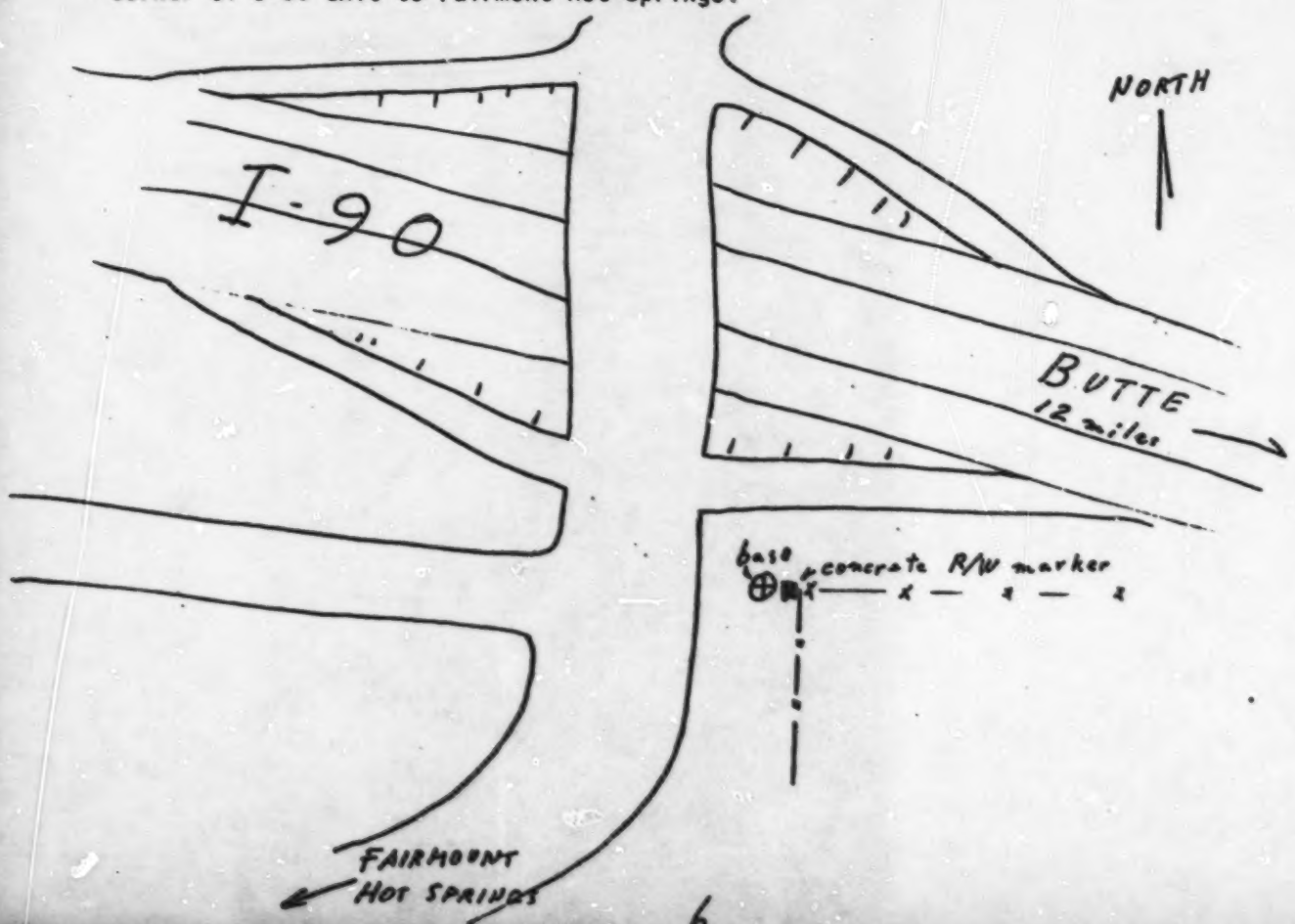
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Fair	980189.30
NEAREST TOWN	LONGITUDE	LATITUDE
Opportunity	112°45.60'	46°03.30'
ELEVATION	TOPOGRAPHIC MAP(S)	
1585 m	Anaconda 15 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/19/80	Hassemer	G-2	Butte Airport	980159.88

DESCRIPTION/SKETCH

Base is read on the ground at a 1 foot high 4x4" highway R/W marker at the south corner of I-90 exit to Fairmont Hot Springs.



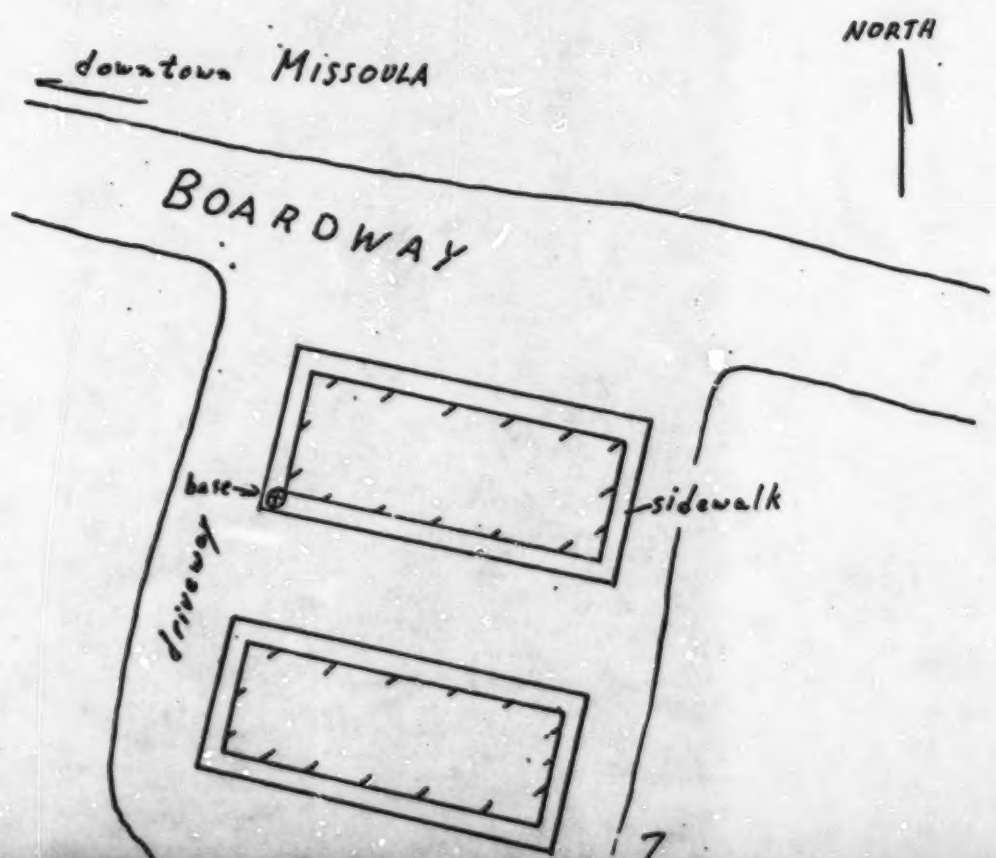
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Faminn	980435.57
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Missoula	113°58.07'	45°52.02'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
980 m	Southeast Missoula 7.5 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/21/79	Hassemer	G-2	Drummond	980365.65
6/23/79	"	"	"	"
7/28/79	"	"	"	"

DESCRIPTION/SKETCH

Read on the southwest corner sidewalk for the northern unit of the Family Inn, east side of Missoula on Broadway.



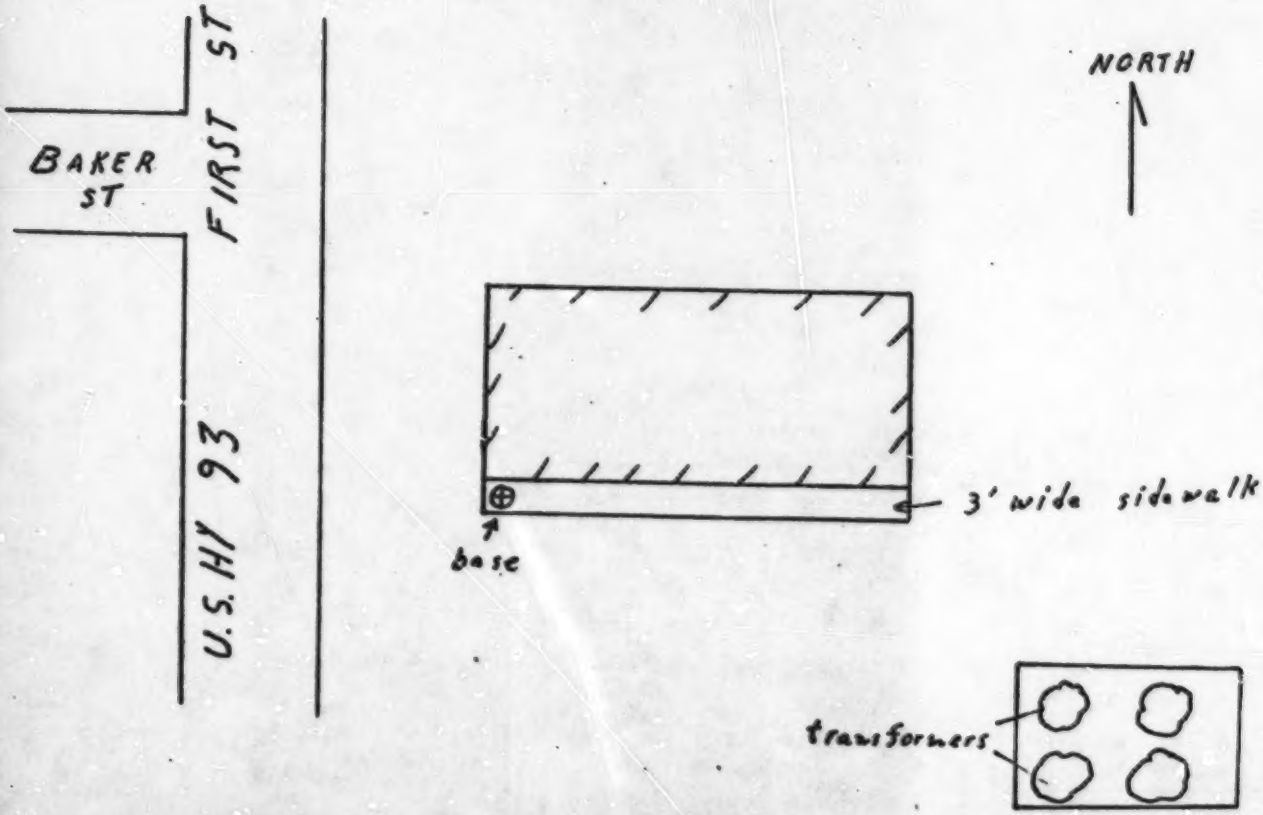
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Hamil	980317.37
NEAREST TOWN	LONGITUDE	LATITUDE
Hamilton	114°08.00'	46°10.00'
ELEVATION	TOPOGRAPHIC MAP(S)	
1127 m	Hamilton AMS map	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/23/79	Hassemer	G-2	Drummond	980365.65
7/3/79	Hassemer	G-2	Drummond	980365.65

DESCRIPTION/SKETCH

Station is read on the southwest corner of a concrete slab for a garage at the Montana Power high voltage station near Baker St. & U.S. Highway 93.



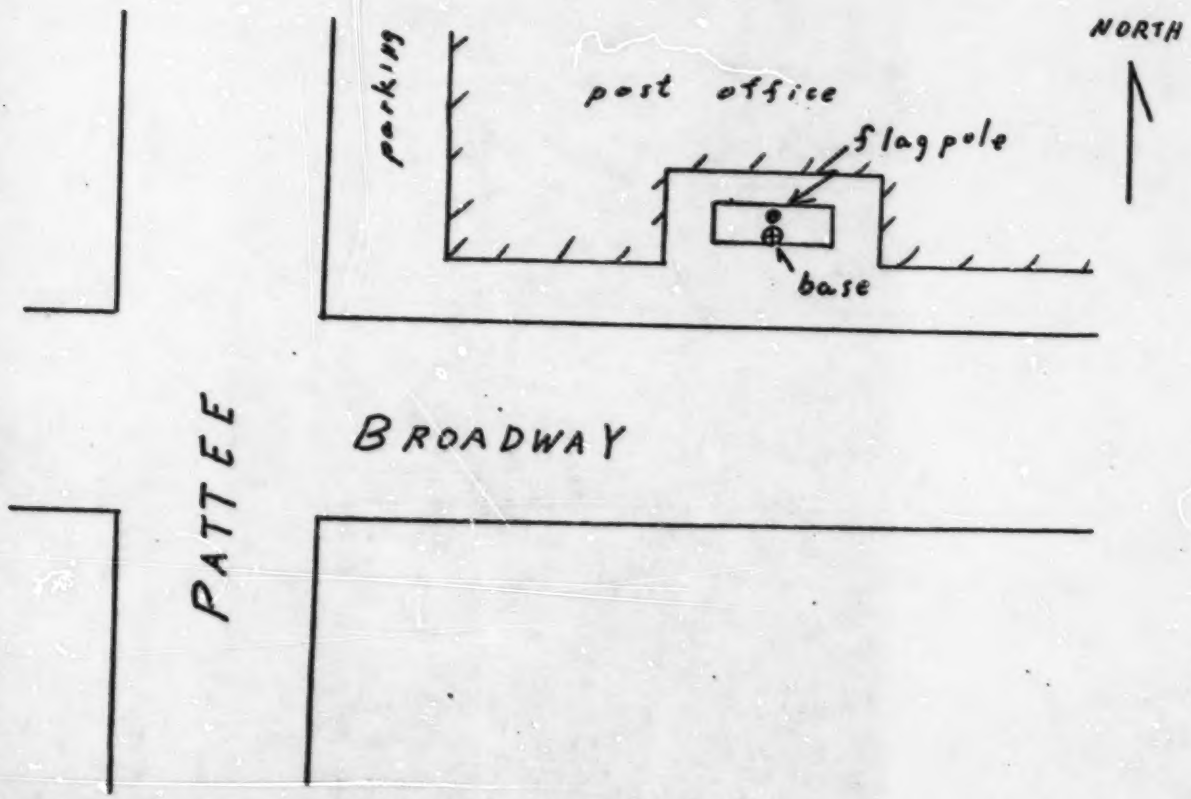
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Mopobase	980432.05
NEAREST TOWN Missoula	LONGITUDE 113°59.45'	LATITUDE 46°52.30'
ELEVATION 977 m	TOPOGRAPHIC MAP(S) Southeast Missoula 7.5 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/22/80	Hassemer	G-2	Faminn	980435.57
7/28/80	Hassemer	G-2	Drummond	980365.65

DESCRIPTION/SKETCH

Read on concrete at base of flag pole, south side of post office at Boardway and Pattee.



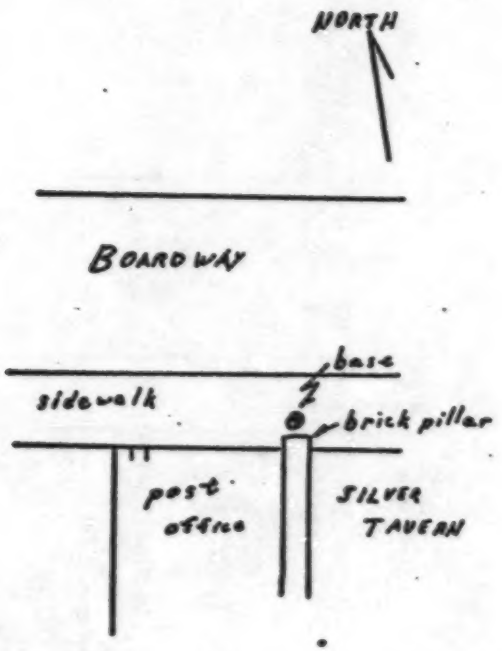
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Philipsburg Post Office	980229.00
NEAREST TOWN	**LONGITUDE**	**LATITUDE**
Philipsburg	113°17.65'	46°19.90'
ELEVATION	**TOPOGRAPHIC MAP(S)**	
1597 m	Philipsburg 7.5 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/3/75	Kleinkopf & Wilson	G-159	Drummond	980365.65
6/21/79	Hassemer	G-2	"	"
7/3/79	Hassemer	G-2	"	"

DESCRIPTION/SKETCH

Base is on concrete sidewalk, east corner of post office along Boardway (the main street).



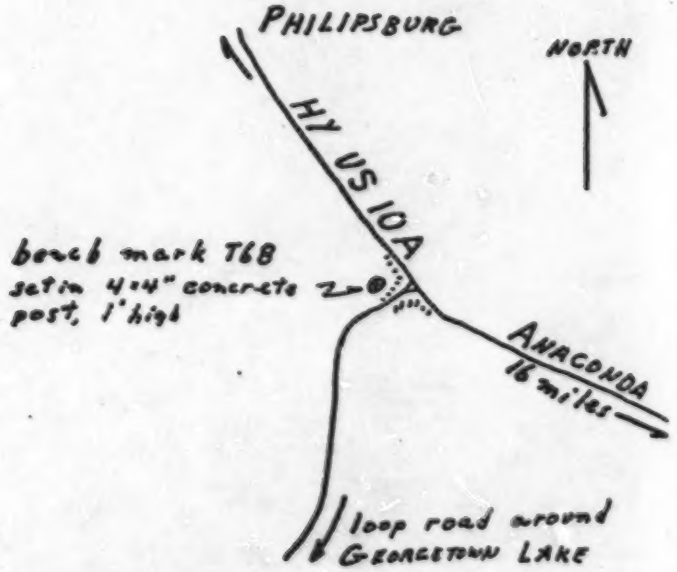
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	t68	980151.96
NEAREST TOWN	LONGITUDE	LATITUDE
Anaconda	113°15.55'	46°10.58'
ELEVATION	TOPOGRAPHIC MAP(S)	
1948 m	Georgetown Lake 7.5 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
6/21/79	Hassemer	G-2	Drummond	980365.65
6/27/79	Hassemer	G-2	Philipsburg	980229.00

DESCRIPTION/SKETCH

Read on the ground at bench mark t68 (elev = 6392) at turn off to Georgetown Lake, 16 mile west of Anaconda.



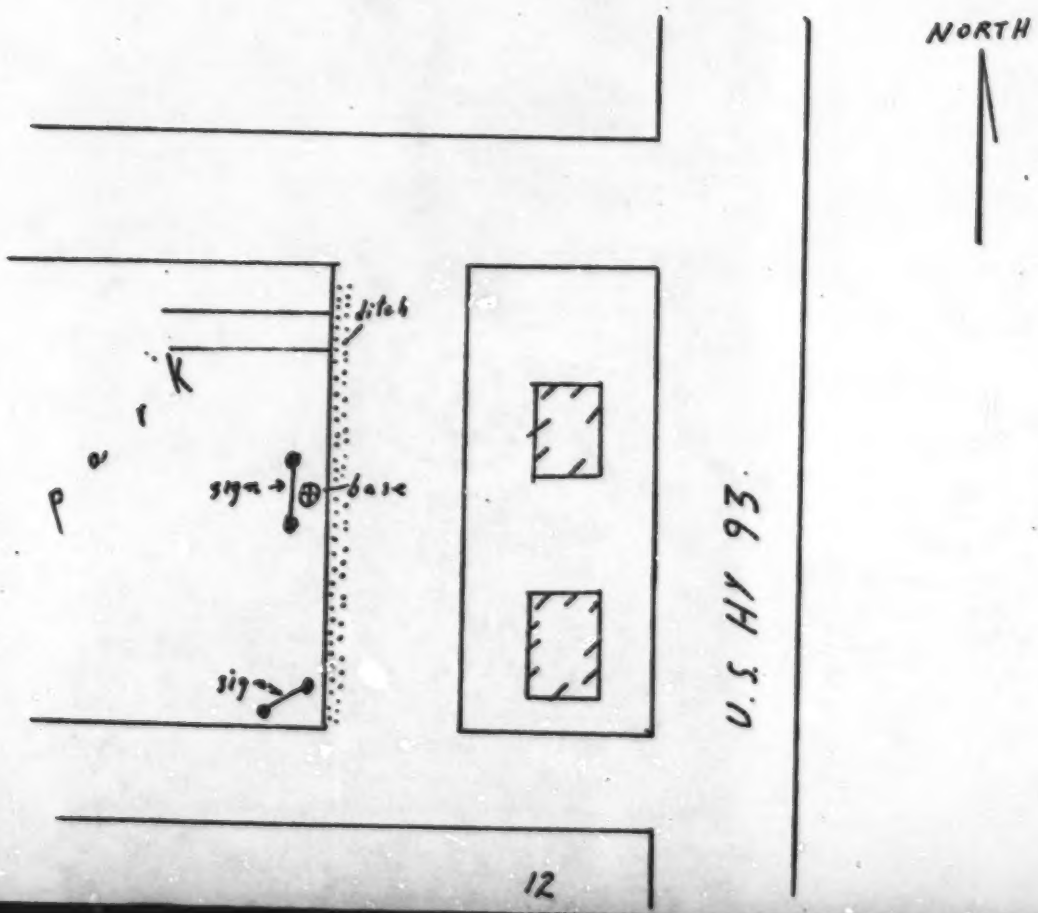
U.S. GEOLOGICAL SURVEY
GRAVITY BASE STATION

STATE/COUNTRY	STATION DESIGNATION	OBSERVED GRAVITY
Montana	Victor	980356.65
NEAREST TOWN	LONGITUDE	LATITUDE
Victor	114°08.80	46°25.00'
ELEVATION	TOPOGRAPHIC MAP(S)	
1052 m	Victor 7.5 min	

DATE	OBSERVER	METER	REFERENCE STATION	REFERENCE VALUE
7/7/80	Hassemer	G-2	Hamil & Faminn	980317.37 & 980435.57
7/11/80	Hassemer	G-2	Hamil	980317.37

DESCRIPTION/SKETCH

Station is read on ground at center of sign on east side of a partk, one block west of U.S. Highway 93.



Explanation of Table Headings

The computer printout lists the principal facts for the gravity stations. An explanation of the column headings follows:

IDENTIFICATION	Proj Butte for Butte CUSMAP project sta-id for Gravity survey station number
LATITUDE	North latitude in degrees, minutes, and hundredths of minutes
LONGITUDE	West longitude in degrees, minutes, and hundredths of minutes
ELE	Elevation in feet above sea level
ST	State
OBSERVED GRAVITY	Observed gravity in milligals
THEORETICAL GRAVITY	Theoretical gravity computed using the "Geodetic Reference System 1967" (International Association of Geodesy, 1971)
TERRAIN CORRECTION	Corrections due to effects of topography at density of 2.67 g/cm^3 to a distance of 166.7 km, in milligals
BOUGUER CORRECTION	Elevation correction in milligals
CURV CORRECTION	Corrections in milligals due to curvature of the Earth
SPECIAL CORRECTIONS	Any other corrections, none used
FREE AIR ANOMALY	Free-air anomaly in milligals
BOUGUER ANOMALY	Complete Bouguer anomaly in milligals for densities of 2.67 and 2.45 g/cm^3
SPEC FIELDS	Not used

Table 1. Principal Facts and Complete Bouguer Gravity Anomaly Map for the West Half of the Butte 1° x 2° Quadrangle, Montana

BOUGUER GRAVITY DATA

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	faminn	46	52.02	-113	58.67	3220.0	MT	980435.57	980787.94	1.54	-109.83	-1.10	0.00	-49.62	-159.00	-149.99	
BUTTE :	RS031	47	0.81	-113	55.11	7450.0	MT	980187.60	980801.17	13.23	-254.10	-1.50	0.00	86.67	-155.70	-135.73	
BUTTE :	RS032	46	59.19	-113	57.16	6894.0	MT	980216.71	980798.73	20.64	-235.13	-1.52	0.00	65.98	-150.03	-132.23	
BUTTE :	RS033	46	59.42	-113	53.14	6610.0	MT	980247.37	980799.08	7.75	-225.45	-1.52	0.00	69.61	-149.60	-131.54	
BUTTE :	RS034	46	56.86	-113	48.36	7646.0	MT	980158.23	980795.22	25.02	-260.78	-1.49	0.00	81.66	-155.59	-136.04	
BUTTE :	RS035	46	56.19	-113	48.35	7250.0	MT	980195.37	980794.21	14.19	-247.28	-1.51	0.00	82.60	-151.99	-132.66	
BUTTE :	RS036	46	57.80	-113	46.55	6257.0	MT	980262.99	980796.64	7.54	-213.41	-1.51	0.00	54.51	-152.87	-135.78	
BUTTE :	RS037	46	56.30	-113	51.97	7054.0	MT	980203.56	980794.38	16.79	-240.59	-1.51	0.00	72.22	-153.10	-134.53	
BUTTE :	RS041	47	0.85	-113	59.91	4950.0	MT	980348.03	980801.23	10.56	-168.83	-1.40	0.00	12.14	-147.53	-134.37	
BUTTE :	RS042	46	58.45	-113	59.67	3957.0	MT	980404.24	980797.62	6.59	-134.96	-1.25	0.00	-21.36	-150.98	-140.30	
BUTTE :	RS046	46	53.39	-114	1.04	3180.0	MT	980429.89	980790.00	1.42	-108.46	-1.09	0.00	-61.12	-169.25	-160.34	
BUTTE :	RS047	46	54.24	-114	0.51	3330.0	MT	980428.95	980791.28	1.80	-113.58	-1.12	0.00	-49.24	-162.14	-152.84	
BUTTE :	RS048	46	53.26	-113	55.47	3248.0	MT	980436.88	980789.80	4.59	-110.78	-1.10	0.00	-47.94	-155.23	-146.39	
BUTTE :	RS049	46	55.18	-113	54.42	3950.0	MT	980397.59	980792.70	7.67	-134.72	-1.25	0.00	-23.74	-152.04	-141.47	
BUTTE :	RS050	46	54.12	-113	55.55	3565.0	MT	980419.00	980791.09	5.39	-121.59	-1.17	0.00	-36.92	-154.30	-144.63	
BUTTE :	RS085	46	54.01	-113	57.59	3443.0	MT	980426.05	980790.93	2.50	-117.43	-1.15	0.00	-41.18	-157.26	-147.69	
BUTTE :	RS086	46	55.95	-113	57.31	3647.0	MT	980418.10	980793.85	5.10	-124.30	-1.19	0.00	-32.87	-153.35	-143.42	
BUTTE :	RS087	46	56.69	-113	57.03	3733.0	MT	980414.25	980794.97	6.03	-127.32	-1.21	0.00	-29.75	-152.25	-142.16	
BUTTE :	RS088	46	57.35	-113	55.00	3841.0	MT	980403.64	980795.96	11.30	-131.01	-1.23	0.00	-31.20	-152.14	-142.17	
BUTTE :	RS089	46	57.60	-113	52.93	3934.0	MT	980393.91	980796.38	13.80	-134.18	-1.25	0.00	-32.57	-154.19	-144.17	
BUTTE :	RS090	46	57.99	-113	51.98	4020.0	MT	980387.53	980796.92	15.49	-137.11	-1.26	0.00	-31.45	-154.38	-144.21	
BUTTE :	RS091	46	58.83	-113	50.13	4216.0	MT	980381.05	980798.19	13.73	-143.80	-1.30	0.00	-20.78	-152.14	-141.32	
BUTTE :	RS092	47	0.35	-113	50.35	4602.0	MT	980361.51	980800.48	13.17	-156.96	-1.36	0.00	-6.33	-151.48	-139.52	
BUTTE :	RS099	47	1.04	-114	0.77	6817.0	MT	980229.80	980801.52	17.21	-232.51	-1.52	0.00	69.05	-147.76	-129.90	
BUTTE :	RS100	46	52.58	-113	53.14	3280.0	MT	980432.37	980788.72	4.60	-111.87	-1.11	0.00	-47.97	-156.35	-147.42	
BUTTE :	RS104	46	54.03	-113	45.33	3360.0	MT	980420.18	980790.96	10.23	-114.60	-1.13	0.00	-58.88	-160.38	-151.68	
BUTTE :	RS106	46	56.19	-113	41.77	3914.0	MT	980399.34	980794.21	1.98	-133.50	-1.24	0.00	-26.89	-159.65	-148.71	
BUTTE :	RS107	46	57.22	-113	41.10	4309.0	MT	980376.48	980795.77	2.26	-146.97	-1.31	0.00	-14.18	-160.20	-148.17	
BUTTE :	RS108	46	59.07	-113	40.58	4026.0	MT	980400.58	980798.55	3.23	-137.31	-1.26	0.00	-19.47	-154.82	-143.67	
BUTTE :	RS109	46	59.80	-113	40.62	4152.0	MT	980393.79	980799.65	2.27	-141.61	-1.29	0.00	-15.51	-156.14	-144.56	
BUTTE :	mspobase	46	52.30	-113	59.45	3205.0	MT	980432.53	980788.36	1.89	-109.14	-1.09	0.00	-58.96	-163.30	-154.38	
BUTTE :	RS123	46	54.20	-113	58.05	4100.0	MT	980387.58	980791.22	7.30	-139.84	-1.28	0.00	-18.18	-152.00	-140.97	
BUTTE :	RS124	46	58.19	-113	42.25	4760.0	MT	980355.25	980797.23	3.04	-162.35	-1.38	0.00	5.51	-155.18	-141.94	
BUTTE :	RS125	46	58.70	-113	42.87	4860.0	MT	980351.88	980797.99	2.65	-165.76	-1.39	0.00	10.78	-153.73	-140.17	
BUTTE :	RS126	46	59.37	-113	44.02	5360.0	MT	980323.06	980799.00	4.11	-182.81	-1.45	0.00	27.93	-152.22	-137.38	
BUTTE :	RS127	46	59.62	-113	45.27	6042.0	MT	980280.67	980799.38	4.78	-206.08	-1.50	0.00	49.25	-153.41	-136.90	
BUTTE :	RS128	46	59.72	-113	47.62	6430.0	MT	980259.07	980799.53	6.40	-219.31	-1.51	0.00	63.95	-150.47	-132.00	
BUTTE :	RS129	47	0.34	-113	46.79	6402.0	MT	980268.48	980800.46	9.01	-218.35	-1.51	0.00	62.58	-148.36	-130.90	
BUTTE :	RS130	46	56.27	-113	43.09	3780.0	MT	980408.45	980794.38	5.87	-128.92	-1.22	0.00	-30.00	-157.08	-146.67	
BUTTE :	RS131	46	56.44	-113	44.67	4920.0	MT	980342.55	980794.59	5.42	-167.94	-1.40	0.00	10.44	-155.29	-141.41	

East half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	RS132	46	56.78	-113	46.01	5170.0	MT	980325.22	980795.10	4.73	-176.33 -1.43	0.00	16.13	-156.90	-142.64	
BUTTE :	RS133	46	55.38	-113	44.46	4268.0	MT	980377.98	980792.99	5.10	-145.57 -1.31	0.00	-13.76	-155.54	-143.85	
BUTTE :	RS134	46	55.44	-113	46.95	6220.0	MT	980259.39	980793.09	9.63	-212.15 -1.51	0.00	50.99	-153.04	-136.22	
BUTTE :	RS136	46	53.38	-113	49.90	3287.0	MT	980428.35	980789.98	10.83	-112.11 -1.11	0.00	-56.59	-158.98	-150.54	
BUTTE :	RS137	46	55.25	-113	47.95	6380.0	MT	980247.83	980792.80	9.31	-217.60 -1.51	0.00	54.74	-155.06	-137.78	
BUTTE :	RS138	46	55.25	-113	48.89	6580.0	MT	980233.42	980792.80	11.98	-224.42 -1.52	0.00	59.13	-154.83	-137.20	
BUTTE :	RS139	46	55.39	-113	49.65	6480.0	MT	980237.58	980793.01	14.04	-221.01 -1.51	0.00	53.68	-154.81	-137.63	
BUTTE :	RS140	46	54.98	-113	46.64	6673.0	MT	980216.61	980792.39	25.10	-227.60 -1.52	0.00	51.46	-152.55	-135.74	
BUTTE :	RS142	47	1.18	-113	39.05	5283.0	MT	980331.59	980801.73	2.12	-180.19 -1.44	0.00	26.50	-153.01	-138.22	
BUTTE :	RS143	47	0.17	-113	36.72	4535.0	MT	980373.51	980800.20	2.44	-154.68 -1.35	0.00	-0.36	-153.94	-141.29	
BUTTE :	RS147	47	0.55	-113	35.41	4900.0	MT	980352.87	980800.77	1.82	-167.12 -1.40	0.00	12.73	-153.97	-140.23	
BUTTE :	RS149	47	0.52	-113	33.19	6085.0	MT	980275.03	980800.73	7.97	-207.54 -1.50	0.00	46.29	-154.78	-138.21	
BUTTE :	RS150	47	0.16	-113	32.03	5780.0	MT	980298.27	980800.19	5.97	-197.18 -1.48	0.00	41.42	-151.23	-135.36	
BUTTE :	lakebase	47	11.00	-112	29.00	4029.0	MT	980404.92	980816.50	2.62	-137.42 -1.27	0.00	-32.80	-168.86	-157.65	
BUTTE :	da434	45	36.86	-113	26.88	6054.0	MT	980067.39	980674.65	0.53	-206.48 -1.50	0.00	-38.16	-245.61	-228.52	
BUTTE :	D0781	45	59.81	-113	58.32	6278.0	MT	980129.52	980709.26	3.67	-214.12 -1.51	0.00	10.41	-201.56	-184.09	
BUTTE :	D0769	45	59.91	-113	4.31	6600.0	MT	980095.97	980709.41	2.21	-225.11 -1.52	0.00	6.96	-217.46	-198.97	
BUTTE :	D0770	46	0.05	-113	3.94	6550.0	MT	980096.73	980709.63	2.16	-223.40 -1.51	0.00	2.81	-219.94	-201.59	
BUTTE :	D0771	46	0.04	-113	3.25	6510.0	MT	980102.66	980709.61	2.20	-222.04 -1.51	0.00	5.00	-216.35	-198.11	
BUTTE :	D0782	46	0.36	-113	14.14	8839.0	MT	979955.17	980710.09	11.81	-301.47 -1.38	0.00	75.81	-215.23	-191.25	
BUTTE :	D0797	45	59.63	-113	22.71	7365.0	MT	980044.51	980708.99	9.68	-251.20 -1.51	0.00	27.79	-215.32	-195.29	
BUTTE :	B0001	46	46.98	-114	0.11	3591.0	MT	980399.14	980780.38	5.45	-122.48 -1.18	0.00	-43.59	-161.79	-152.05	
BUTTE :	B0002	46	46.96	-113	59.02	3685.0	MT	980393.47	980780.31	5.42	-125.68 -1.20	0.00	-40.39	-161.86	-151.85	
BUTTE :	B0003	46	46.66	-113	57.50	3762.0	MT	980388.84	980779.87	5.88	-128.31 -1.21	0.00	-38.13	-161.78	-151.59	
BUTTE :	B0004	46	47.18	-113	55.87	4130.0	MT	980366.74	980780.65	6.82	-140.86 -1.28	0.00	-25.63	-160.95	-149.80	
BUTTE :	B0005	46	45.89	-113	56.41	3864.0	MT	980379.25	980778.70	6.77	-131.79 -1.23	0.00	-36.17	-162.43	-152.03	
BUTTE :	B0006	46	46.12	-113	55.15	4160.0	MT	980360.69	980779.05	8.08	-141.89 -1.29	0.00	-27.26	-162.36	-151.23	
BUTTE :	B0007	46	46.30	-113	54.25	4420.0	MT	980345.42	980779.32	9.32	-150.75 -1.33	0.00	-18.36	-161.13	-149.37	
BUTTE :	B0008	46	44.21	-113	56.10	4035.0	MT	980366.59	980776.17	5.30	-137.62 -1.27	0.00	-30.23	-163.82	-152.81	
BUTTE :	B0009	46	43.11	-113	53.88	4803.0	MT	980316.36	980774.52	5.90	-163.82 -1.39	0.00	-6.63	-165.93	-152.81	
BUTTE :	B0010	46	42.66	-113	50.45	6702.0	MT	980194.57	980773.84	15.34	-228.59 -1.52	0.00	50.70	-164.06	-146.37	
BUTTE :	B0011	46	44.00	-113	51.05	6260.0	MT	980230.79	980775.86	7.86	-213.51 -1.51	0.00	43.37	-163.78	-146.72	
BUTTE :	B0012	46	44.83	-113	50.90	6520.0	MT	980214.82	980777.11	10.62	-222.38 -1.51	0.00	50.58	-162.69	-145.12	
BUTTE :	B0013	46	43.60	-113	50.87	5840.0	MT	980261.43	980775.26	2.87	-199.19 -1.49	0.00	35.15	-162.65	-146.35	
BUTTE :	B0014	46	42.60	-113	53.81	4700.0	MT	980322.34	980773.75	3.95	-160.30 -1.37	0.00	-9.55	-167.28	-154.28	
BUTTE :	B0015	46	43.03	-113	56.65	5699.0	MT	980261.81	980774.40	6.64	-194.38 -1.48	0.00	22.34	-166.87	-151.28	
BUTTE :	B0016	46	51.96	-113	57.02	3220.0	MT	980432.56	980787.84	5.87	-109.83 -1.10	0.00	-52.54	-157.59	-148.93	
BUTTE :	B0017	46	52.40	-113	54.45	3268.0	MT	980431.31	980788.51	5.90	-111.46 -1.11	0.00	-49.94	-156.61	-147.82	
BUTTE :	B0018	46	52.32	-113	52.98	3282.0	MT	980432.00	980788.38	4.11	-111.94 -1.11	0.00	-47.81	-156.75	-147.78	
BUTTE :	B0019	46	51.99	-113	52.29	3290.0	MT	980430.34	980787.89	4.31	-112.21 -1.11	0.00	-48.22	-157.24	-148.25	

15

West half BUTTE quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0020	46	50.93	-113	59.78	3199.0	MT	980430.35	980786.30	2.80	-109.11	-1.09	0.00	-55.17	-162.57	-153.72	
BUTTE :	B0021	46	49.73	-113	57.67	3640.0	MT	980405.65	980784.48	4.62	-124.15	-1.19	0.00	-36.62	-157.33	-147.39	
BUTTE :	B0022	46	49.51	-113	56.24	3940.0	MT	980387.36	980784.16	2.73	-134.38	-1.25	0.00	-26.38	-159.28	-148.33	
BUTTE :	B0023	46	50.24	-113	56.75	4340.0	MT	980365.77	980785.26	2.02	-148.02	-1.32	0.00	-11.47	-158.79	-146.65	
BUTTE :	B0024	46	49.68	-113	55.22	4180.0	MT	980373.43	980784.41	2.13	-142.57	-1.29	0.00	-18.00	-159.73	-148.06	
BUTTE :	B0025	46	48.61	-113	55.28	5441.0	MT	980287.65	980782.80	10.62	-185.58	-1.46	0.00	16.33	-160.08	-145.54	
BUTTE :	B0026	46	46.88	-113	54.32	5950.0	MT	980258.94	980780.20	11.92	-202.98	-1.49	0.00	32.06	-160.46	-144.59	
BUTTE :	B0027	46	51.24	-113	53.12	3405.0	MT	980420.46	980786.76	5.30	-116.13	-1.14	0.00	-46.17	-158.14	-148.91	
BUTTE :	B0028	46	52.54	-113	51.20	3278.0	MT	980427.89	980788.72	9.20	-111.80	-1.11	0.00	-52.63	-156.34	-147.80	
BUTTE :	B0029	46	53.56	-113	48.61	3363.0	MT	980419.18	980790.25	11.50	-114.70	-1.13	0.00	-54.89	-159.22	-150.62	
BUTTE :	B0030	46	53.51	-113	47.42	3346.0	MT	980420.57	980790.18	11.42	-114.12	-1.13	0.00	-55.02	-158.85	-150.29	
BUTTE :	B0031	46	54.28	-113	44.81	3384.0	MT	980422.79	980791.34	7.75	-115.42	-1.13	0.00	-50.39	-159.19	-150.23	
BUTTE :	B0032	46	54.81	-113	42.61	3410.0	MT	980426.14	980792.13	4.23	-116.31	-1.14	0.00	-45.39	-158.61	-149.28	
BUTTE :	B0033	46	54.74	-113	39.58	3494.0	MT	980422.49	980792.03	2.26	-119.17	-1.16	0.00	-41.04	-159.11	-149.38	
BUTTE :	B0034	46	53.54	-113	39.06	3560.0	MT	980412.40	980790.23	1.88	-121.42	-1.17	0.00	-43.12	-163.84	-153.89	
BUTTE :	B0035	46	53.21	-113	39.90	3778.0	MT	980399.69	980789.73	1.65	-128.86	-1.22	0.00	-34.85	-163.27	-152.69	
BUTTE :	B0036	46	54.45	-113	38.59	3523.0	MT	980417.40	980791.59	3.03	-120.16	-1.16	0.00	-42.97	-161.26	-151.52	
BUTTE :	B0037	46	53.75	-113	37.70	3524.0	MT	980412.04	980790.54	2.05	-120.19	-1.16	0.00	-47.18	-166.49	-156.66	
BUTTE :	B0038	46	52.26	-113	59.61	3200.0	MT	980431.02	980788.30	1.75	-109.14	-1.09	0.00	-56.41	-164.89	-155.95	
BUTTE :	B0039	46	50.63	-113	50.46	3312.0	MT	980422.78	980785.84	5.97	-112.96	-1.12	0.00	-51.67	-159.78	-150.87	
BUTTE :	B0040	46	50.23	-113	49.68	3320.0	MT	980422.12	980785.28	5.90	-113.24	-1.12	0.00	-50.98	-159.43	-150.50	
BUTTE :	B0041	46	50.92	-113	52.31	3542.0	MT	980409.72	980786.28	4.68	-120.81	-1.17	0.00	-43.55	-160.84	-151.18	
BUTTE :	B0042	46	47.69	-113	47.61	4513.0	MT	980340.57	980781.41	10.98	-153.93	-1.35	0.00	-16.57	-160.86	-148.97	
BUTTE :	B0043	46	47.44	-113	51.49	6432.0	MT	980224.38	980781.04	11.79	-219.38	-1.51	0.00	47.94	-161.16	-143.93	
BUTTE :	B0044	46	47.96	-113	48.46	4766.0	MT	980327.10	980781.82	7.08	-162.55	-1.38	0.00	-6.67	-163.56	-150.63	
BUTTE :	B0045	46	49.85	-113	49.02	3327.0	MT	980421.05	980784.66	5.87	-113.47	-1.12	0.00	-50.82	-159.54	-150.58	
BUTTE :	B0046	46	48.84	-113	47.33	3355.0	MT	980416.53	980783.15	5.72	-114.43	-1.13	0.00	-51.18	-161.02	-151.97	
BUTTE :	B0047	46	48.32	-113	46.56	3385.0	MT	980410.65	980782.37	4.68	-115.45	-1.13	0.00	-49.46	-161.37	-152.15	
BUTTE :	B0048	46	49.29	-113	45.08	3778.0	MT	980391.14	980783.82	6.78	-128.86	-1.22	0.00	-37.49	-160.78	-150.62	
BUTTE :	B0049	46	48.68	-113	48.14	5481.0	MT	980282.05	980782.91	12.22	-186.94	-1.46	0.00	14.38	-161.80	-147.28	
BUTTE :	B0050	46	48.83	-113	42.18	5620.0	MT	980277.65	980783.13	9.67	-191.68	-1.47	0.00	22.82	-160.66	-145.54	
BUTTE :	B0051	46	49.91	-113	40.32	5948.0	MT	980259.73	980784.76	7.56	-202.87	-1.49	0.00	34.10	-162.70	-146.49	
BUTTE :	B0052	46	51.13	-113	57.75	5158.0	MT	980307.81	980786.59	17.72	-175.92	-1.43	0.00	6.11	-153.53	-140.37	
BUTTE :	B0053	46	48.08	-113	57.63	5906.0	MT	980254.48	980782.00	13.99	-201.48	-1.49	0.00	27.66	-161.28	-145.71	
BUTTE :	B0054	46	46.05	-113	59.38	5378.0	MT	980285.68	980778.95	9.38	-183.43	-1.45	0.00	12.30	-163.20	-148.74	
BUTTE :	B0055	46	45.45	-113	53.18	7030.0	MT	980177.44	980778.04	19.57	-239.77	-1.52	0.00	60.18	-161.54	-143.27	
BUTTE :	B0056	46	49.30	-113	51.79	6209.0	MT	980232.32	980783.84	24.69	-211.77	-1.51	0.00	32.13	-156.46	-140.92	
BUTTE :	B0057	46	51.83	-113	47.72	6813.0	MT	980205.15	980787.65	22.13	-232.37	-1.52	0.00	57.89	-153.86	-136.42	
BUTTE :	B0058	46	50.96	-113	45.65	5563.0	MT	980290.87	980786.34	7.38	-189.74	-1.47	0.00	27.48	-156.39	-141.24	
BUTTE :	B0059	46	51.28	-113	40.93	5458.0	MT	980293.90	980786.82	8.01	-186.16	-1.46	0.00	20.16	-159.45	-144.65	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGTITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0060	46	53.40	-113	42.89	5483.0	MT	980294.53	980790.02	9.43	-187.01	-1.46	0.00	19.95	-159.09	-144.38	
BUTTE :	B0061	46	54.09	-113	40.30	4314.0	MT	980370.81	980791.05	5.34	-147.14	-1.31	0.00	-14.67	-157.78	-145.99	
BUTTE :	B0062	46	51.77	-113	38.36	4122.0	MT	980376.83	980787.55	1.95	-140.59	-1.28	0.00	-23.20	-163.12	-151.59	
BUTTE :	B0063	46	47.29	-113	38.15	6007.0	MT	980245.85	980780.81	8.99	-204.88	-1.50	0.00	29.71	-167.68	-151.42	
BUTTE :	B0064	46	45.49	-113	39.83	5492.0	MT	980275.05	980778.10	8.94	-187.32	-1.46	0.00	13.22	-166.61	-151.80	
BUTTE :	B0065	46	42.68	-113	38.15	5573.0	MT	980256.96	980773.81	15.06	-190.08	-1.47	0.00	7.04	-169.45	-154.90	
BUTTE :	B0066	46	40.63	-113	36.11	6385.0	MT	980204.78	980770.78	12.84	-217.77	-1.51	0.00	34.19	-172.26	-155.25	
BUTTE :	B0067	46	40.75	-113	38.35	6350.0	MT	980207.96	980770.96	15.32	-216.58	-1.51	0.00	33.50	-169.27	-152.56	
BUTTE :	B0068	46	41.39	-113	41.63	5336.0	MT	980277.37	980771.93	9.40	-182.00	-1.45	0.00	7.06	-166.98	-152.64	
BUTTE :	B0069	46	42.66	-113	44.32	6425.0	MT	980209.19	980773.84	14.18	-219.14	-1.51	0.00	39.29	-167.18	-150.17	
BUTTE :	B0070	46	52.02	-113	58.67	3220.0	MT	980435.57	980787.94	2.78	-109.83	-1.10	0.00	-49.62	-157.76	-148.85	
BUTTE :	B0071	46	51.10	-113	35.33	3782.0	MT	980388.98	980786.55	1.24	-128.99	-1.22	0.00	-42.00	-170.97	-160.34	
BUTTE :	B0072	46	50.38	-113	35.76	3882.0	MT	980389.06	980785.47	2.61	-132.40	-1.24	0.00	-31.43	-162.47	-151.67	
BUTTE :	B0073	46	49.14	-113	38.07	5510.0	MT	980282.87	980783.60	8.27	-187.93	-1.46	0.00	16.44	-164.68	-149.76	
BUTTE :	B0074	46	48.45	-113	34.65	5175.0	MT	980307.76	980782.56	4.42	-176.50	-1.43	0.00	11.69	-161.83	-147.53	
BUTTE :	B0075	46	47.93	-113	32.35	5472.0	MT	980290.18	980781.77	3.53	-186.63	-1.46	0.00	22.80	-161.76	-146.55	
BUTTE :	B0076	46	47.20	-113	30.77	5801.0	MT	980266.56	980780.68	7.17	-197.85	-1.48	0.00	31.20	-160.97	-145.14	
BUTTE :	B0077	46	45.89	-113	33.33	4012.0	MT	980366.35	980778.70	7.21	-136.84	-1.26	0.00	-35.16	-166.05	-155.27	
BUTTE :	B0078	46	45.30	-113	42.85	3467.0	MT	980400.42	980777.81	4.31	-118.25	-1.15	0.00	-51.43	-166.52	-157.04	
BUTTE :	B0079	46	46.39	-113	43.64	3916.0	MT	980375.87	980779.45	4.94	-133.56	-1.24	0.00	-35.42	-165.29	-154.59	
BUTTE :	B0080	46	45.81	-113	44.84	5383.0	MT	980281.39	980778.59	9.41	-183.60	-1.45	0.00	8.84	-166.80	-152.33	
BUTTE :	B0081	46	45.69	-113	45.06	5165.0	MT	980297.86	980778.41	4.85	-176.16	-1.43	0.00	5.30	-167.74	-153.50	
BUTTE :	B0082	46	45.59	-113	47.58	5846.0	MT	980250.23	980778.25	12.45	-199.39	-1.49	0.00	21.52	-166.90	-151.38	
BUTTE :	drummond	46	39.75	-113	9.25	3949.0	MT	980365.65	980769.45	1.22	-134.69	-1.25	0.00	-32.54	-167.26	-156.16	
BUTTE :	t68	46	10.58	-113	15.55	6392.0	MT	980151.96	980725.50	1.54	-218.01	-1.51	0.00	27.31	-190.67	-172.71	
BUTTE :	B0083	46	13.82	-113	33.34	5361.0	MT	980206.66	980730.38	2.81	-182.85	-1.45	0.00	-19.74	-201.23	-186.28	
BUTTE :	B0084	46	14.16	-113	34.55	5485.0	MT	980202.37	980730.89	2.76	-185.71	-1.46	0.00	-16.66	-201.07	-185.87	
BUTTE :	B0085	46	14.82	-113	37.38	5780.0	MT	980185.84	980731.89	2.68	-197.14	-1.48	0.00	-3.11	-199.05	-182.90	
BUTTE :	B0086	46	14.66	-113	38.20	5811.0	MT	980182.87	980731.65	4.27	-198.20	-1.48	0.00	-2.52	-197.93	-181.83	
BUTTE :	B0087	46	14.46	-113	39.46	5950.0	MT	980173.83	980731.34	6.17	-202.94	-1.49	0.00	1.80	-196.46	-180.12	
BUTTE :	B0088	46	12.80	-113	41.72	6374.0	MT	980146.28	980728.84	2.27	-217.40	-1.51	0.00	16.60	-200.04	-182.19	
BUTTE :	B0089	46	13.28	-113	42.82	6584.0	MT	980135.47	980729.57	2.05	-224.56	-1.52	0.00	24.79	-199.24	-180.78	
BUTTE :	B0090	46	13.56	-113	43.76	6815.0	MT	980122.42	980729.99	2.06	-232.44	-1.52	0.00	33.83	-198.87	-179.76	
BUTTE :	B0091	46	13.96	-113	44.51	6913.0	MT	980117.03	980730.59	2.64	-235.78	-1.52	0.00	36.24	-198.42	-179.08	
BUTTE :	B0092	46	12.06	-113	41.85	6521.0	MT	980136.41	980727.73	1.66	-222.41	-1.51	0.00	21.66	-200.61	-182.30	
BUTTE :	B0093	46	10.89	-113	41.41	6644.0	MT	980128.28	980725.97	1.47	-226.61	-1.52	0.00	22.84	-203.81	-185.13	
BUTTE :	B0094	46	9.57	-113	39.45	7014.0	MT	980101.63	980723.98	2.01	-239.23	-1.52	0.00	36.95	-201.78	-182.11	
BUTTE :	B0095	46	8.40	-113	42.48	7142.0	MT	980086.81	980722.21	1.66	-243.59	-1.51	0.00	35.92	-207.53	-187.47	
BUTTE :	B0096	46	7.61	-113	41.23	6969.0	MT	980096.55	980721.02	1.99	-237.69	-1.52	0.00	30.59	-206.63	-187.08	
BUTTE :	B0097	46	14.49	-113	18.78	5507.0	MT	980199.24	980731.39	2.39	-187.83	-1.46	0.00	-14.46	-201.34	-185.96	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0098	46	11.27	-113	37.96	8639.0	MT	979990.61	980726.54	18.74	-294.65	-1.41	0.00	76.01	-201.30	-178.45	
BUTTE :	B0099	46	13.18	-113	39.04	8168.0	MT	980031.62	980729.41	11.41	-278.59	-1.46	0.00	69.90	-198.73	-176.60	
BUTTE :	B0100	46	14.66	-113	43.54	8300.0	MT	980024.89	980731.65	15.81	-283.09	-1.48	0.00	73.34	-195.38	-173.24	
BUTTE :	B0101	46	13.99	-113	48.04	7814.0	MT	980058.58	980730.64	7.65	-266.51	-1.48	0.00	62.39	-197.96	-176.51	
BUTTE :	B0102	46	13.15	-113	47.94	8165.0	MT	980030.58	980729.38	13.08	-278.48	-1.46	0.00	68.62	-198.24	-176.25	
BUTTE :	B0103	46	13.09	-113	52.08	7132.0	MT	980095.84	980729.28	12.93	-243.25	-1.51	0.00	36.94	-194.90	-175.80	
BUTTE :	B0104	46	11.35	-113	51.70	6052.0	MT	980160.38	980726.66	5.97	-206.42	-1.50	0.00	2.63	-199.32	-182.68	
BUTTE :	B0105	46	11.47	-113	49.01	7831.0	MT	980052.17	980726.84	12.38	-267.09	-1.48	0.00	61.38	-194.82	-173.71	
BUTTE :	B0106	46	8.44	-113	50.19	6745.0	MT	980110.96	980722.27	8.77	-230.05	-1.52	0.00	22.71	-200.09	-181.73	
BUTTE :	B0107	46	9.67	-113	47.38	7394.0	MT	980079.60	980724.13	4.70	-252.19	-1.51	0.00	50.47	-198.53	-178.01	
BUTTE :	B0108	46	9.95	-113	38.00	7397.0	MT	980076.35	980724.55	4.85	-252.29	-1.51	0.00	47.08	-201.87	-181.36	
BUTTE :	B0109	46	9.50	-113	19.46	6860.0	MT	980115.18	980723.87	3.30	-233.98	-1.52	0.00	36.13	-196.06	-176.93	
BUTTE :	B0110	46	9.25	-113	19.48	6884.0	MT	980113.90	980723.49	3.08	-234.79	-1.52	0.00	37.48	-195.75	-176.53	
BUTTE :	B0111	46	8.02	-113	20.19	7364.0	MT	980081.38	980721.64	5.98	-251.17	-1.51	0.00	51.92	-194.77	-174.45	
BUTTE :	B0112	46	7.55	-113	20.26	7487.0	MT	980071.66	980720.93	5.63	-255.36	-1.50	0.00	54.46	-196.77	-176.07	
BUTTE :	B0113	46	7.21	-113	20.01	7444.0	MT	980078.77	980720.41	4.28	-253.89	-1.50	0.00	54.04	-197.07	-176.38	
BUTTE :	B0114	46	7.39	-113	17.75	7125.0	MT	980095.42	980720.69	2.71	-243.01	-1.51	0.00	44.45	-197.36	-177.44	
BUTTE :	B0115	46	7.82	-113	17.06	7260.0	MT	980091.94	980721.34	2.29	-247.62	-1.51	0.00	53.00	-193.83	-173.49	
BUTTE :	B0116	46	7.83	-113	14.14	6970.0	MT	980109.39	980721.35	2.83	-237.73	-1.52	0.00	43.20	-193.22	-173.74	
BUTTE :	B0117	46	10.08	-113	12.92	6437.0	MT	980148.21	980724.74	3.28	-219.55	-1.51	0.00	28.55	-189.23	-171.29	
BUTTE :	B0118	46	10.14	-113	18.24	6439.0	MT	980147.86	980724.84	1.83	-219.62	-1.51	0.00	27.90	-191.40	-173.33	
BUTTE :	B0119	46	10.58	-113	15.55	6392.0	MT	980151.96	980725.50	1.54	-218.01	-1.51	0.00	27.31	-190.67	-172.71	
BUTTE :	B0120	46	10.34	-113	17.37	6381.0	MT	980148.38	980725.13	1.54	-217.64	-1.51	0.00	23.07	-194.54	-176.61	
BUTTE :	B0121	46	9.31	-113	18.75	6500.0	MT	980137.79	980723.59	2.49	-221.70	-1.51	0.00	25.21	-195.51	-177.33	
BUTTE :	B0122	46	9.98	-113	19.55	6402.0	MT	980145.08	980724.59	1.36	-218.35	-1.51	0.00	22.28	-196.23	-178.22	
BUTTE :	B0123	46	9.47	-113	21.07	6792.0	MT	980119.59	980723.82	3.33	-231.66	-1.52	0.00	34.20	-195.64	-176.70	
BUTTE :	B0124	46	7.96	-113	46.17	8026.0	MT	980032.01	980721.55	9.67	-273.74	-1.47	0.00	64.82	-200.72	-178.84	
BUTTE :	B0125	46	7.30	-113	48.89	6882.0	MT	980104.31	980720.55	5.86	-234.72	-1.52	0.00	30.65	-199.73	-180.75	
BUTTE :	B0126	46	4.68	-113	49.67	8150.0	MT	980016.38	980716.60	15.14	-277.97	-1.46	0.00	65.79	-198.50	-176.72	
BUTTE :	B0127	46	3.79	-113	47.51	8975.0	MT	979957.98	980715.26	18.74	-306.11	-1.36	0.00	86.23	-202.51	-178.72	
BUTTE :	B0128	46	6.12	-113	45.91	8796.0	MT	979971.77	980718.77	19.24	-300.01	-1.39	0.00	79.69	-202.46	-179.22	
BUTTE :	B0129	46	4.37	-113	43.05	8460.0	MT	979998.71	980716.13	14.55	-288.55	-1.43	0.00	77.71	-197.72	-175.02	
BUTTE :	B0130	46	7.32	-113	39.27	6653.0	MT	980116.83	980720.59	3.04	-226.91	-1.52	0.00	20.82	-204.57	-186.00	
BUTTE :	B0131	46	7.00	-113	33.49	7329.0	MT	980073.97	980720.10	6.42	-249.97	-1.51	0.00	42.75	-202.30	-182.11	
BUTTE :	B0132	46	11.99	-113	15.13	6465.0	MT	980151.49	980727.63	1.55	-220.50	-1.51	0.00	31.58	-188.89	-170.72	
BUTTE :	B0133	46	12.79	-113	15.43	6475.0	MT	980150.29	980728.83	1.96	-220.84	-1.51	0.00	30.11	-190.29	-172.13	
BUTTE :	B0134	46	13.45	-113	15.09	6614.0	MT	980142.85	980729.62	1.68	-225.58	-1.52	0.00	34.74	-190.68	-172.11	
BUTTE :	B0135	46	14.15	-113	15.85	6673.0	MT	980139.99	980730.88	1.78	-227.60	-1.52	0.00	36.37	-191.01	-172.27	
BUTTE :	B0136	46	14.73	-113	16.02	7045.0	MT	980114.88	980732.75	3.79	-240.29	-1.51	0.00	45.33	-192.68	-173.07	
BUTTE :	B0137	46	13.12	-113	17.50	6587.0	MT	980141.22	980729.33	5.65	-224.66	-1.52	0.00	31.07	-189.46	-171.29	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0138	46	9.16	-113	12.74	6510.0	MT	980140.88	980723.36	3.57	-222.04	-1.51	0.00	29.47	-190.52	-172.39	
BUTTE :	B0139	46	8.57	-113	13.17	6640.0	MT	980129.59	980722.47	4.99	-226.47	-1.52	0.00	31.28	-191.72	-173.34	
BUTTE :	B0140	46	8.65	-113	15.75	7457.0	MT	980079.70	980722.59	5.27	-254.34	-1.50	0.00	58.02	-192.55	-171.90	
BUTTE :	B0141	46	8.18	-113	16.07	7282.0	MT	980092.93	980721.88	2.58	-248.37	-1.51	0.00	55.52	-191.82	-171.44	
BUTTE :	B0142	46	5.71	-113	20.87	7805.0	MT	980043.77	980718.16	11.45	-266.21	-1.48	0.00	59.22	-197.02	-175.91	
BUTTE :	B0143	46	5.70	-113	18.48	8408.0	MT	980012.63	980718.14	6.13	-286.77	-1.43	0.00	84.74	-197.34	-174.09	
BUTTE :	B0144	46	3.33	-113	27.93	8062.0	MT	980021.09	980714.57	7.92	-274.97	-1.46	0.00	68.27	-204.24	-182.12	
BUTTE :	B0145	46	5.61	-113	25.22	7204.0	MT	980084.87	980718.01	3.63	-245.71	-1.51	0.00	44.01	-199.58	-179.51	
BUTTE :	B0146	46	5.87	-113	28.23	7096.0	MT	980083.93	980718.40	4.90	-242.02	-1.51	0.00	32.53	-206.11	-186.45	
BUTTE :	B0147	46	2.69	-113	30.53	7608.0	MT	980041.86	980713.60	9.61	-259.49	-1.50	0.00	43.35	-208.02	-187.31	
BUTTE :	B0148	46	1.18	-113	32.78	7875.0	MT	980025.43	980711.33	9.54	-268.59	-1.48	0.00	54.28	-206.25	-184.78	
BUTTE :	B0149	46	1.57	-113	35.38	7812.0	MT	980029.82	980711.91	8.35	-266.45	-1.48	0.00	52.17	-207.41	-186.02	
BUTTE :	B0150	46	2.97	-113	37.85	8122.0	MT	980018.14	980714.02	13.82	-277.02	-1.46	0.00	63.50	-201.16	-179.35	
BUTTE :	B0151	46	2.90	-113	44.76	8750.0	MT	979971.24	980713.92	18.20	-298.48	-1.39	0.00	79.69	-201.94	-178.73	
BUTTE :	B0152	46	0.95	-113	45.22	7890.0	MT	980033.01	980710.98	5.59	-269.10	-1.48	0.00	63.62	-201.38	-179.54	
BUTTE :	B0153	46	0.31	-113	47.52	7683.0	MT	980040.00	980710.02	7.48	-262.05	-1.49	0.00	52.13	-203.97	-182.87	
BUTTE :	B0154	46	1.88	-113	51.80	6868.0	MT	980091.83	980712.38	2.44	-234.25	-1.52	0.00	25.02	-208.30	-189.08	
BUTTE :	B0155	46	5.74	-113	56.06	7353.0	MT	980068.36	980718.20	11.15	-250.79	-1.51	0.00	37.30	-203.85	-183.98	
BUTTE :	B0156	46	4.63	-113	53.23	7051.0	MT	980088.54	980716.52	5.51	-240.49	-1.51	0.00	34.78	-201.71	-182.23	
BUTTE :	B0157	46	11.58	-113	42.78	6438.0	MT	980137.78	980727.01	1.77	-219.58	-1.51	0.00	15.95	-203.38	-185.30	
BUTTE :	B0159	46	12.07	-113	43.02	6510.0	MT	980137.37	980727.74	1.51	-222.04	-1.51	0.00	21.56	-200.48	-182.18	
BUTTE :	B0160	46	11.61	-113	41.55	6490.0	MT	980136.07	980727.05	1.76	-221.35	-1.51	0.00	19.08	-202.03	-183.81	
BUTTE :	B0161	46	9.87	-113	40.43	6670.0	MT	980120.90	980724.43	2.22	-227.49	-1.52	0.00	23.44	-203.35	-184.66	
BUTTE :	B0162	46	9.02	-113	43.70	7402.0	MT	980073.75	980723.15	2.60	-252.46	-1.51	0.00	46.35	-205.02	-184.31	
BUTTE :	B0163	46	9.58	-113	43.00	7727.0	MT	980052.01	980723.99	6.00	-263.55	-1.49	0.00	54.29	-204.74	-183.40	
BUTTE :	B0164	46	8.61	-113	40.91	7371.0	MT	980074.10	980722.53	3.43	-251.40	-1.51	0.00	44.40	-205.08	-184.52	
BUTTE :	B0165	46	9.22	-113	41.06	6715.0	MT	980115.72	980723.45	2.67	-229.03	-1.52	0.00	23.47	-204.40	-185.63	
BUTTE :	B0167	46	8.45	-113	20.95	6885.0	MT	980112.78	980722.29	2.91	-234.83	-1.52	0.00	37.67	-195.77	-176.53	
BUTTE :	B0168	46	7.82	-113	23.44	6238.0	MT	980146.62	980721.34	1.85	-212.76	-1.51	0.00	11.66	-200.75	-183.25	
BUTTE :	B0169	46	8.40	-113	22.70	6170.0	MT	980149.96	980722.21	1.71	-210.44	-1.50	0.00	7.74	-202.49	-185.17	
BUTTE :	B0170	46	8.70	-113	23.83	5899.0	MT	980168.67	980722.66	2.53	-201.20	-1.49	0.00	6.54	-199.62	-183.13	
BUTTE :	B0171	46	12.13	-113	17.21	6581.0	MT	980141.10	980727.84	2.85	-224.46	-1.52	0.00	31.88	-191.25	-172.86	
BUTTE :	B0172	46	11.54	-113	18.00	6596.0	MT	980139.14	980726.95	2.80	-224.97	-1.52	0.00	32.21	-191.47	-173.04	
BUTTE :	B0173	46	11.87	-113	18.76	6734.0	MT	980129.56	980727.45	4.52	-229.68	-1.52	0.00	35.10	-191.57	-172.89	
BUTTE :	B0174	46	8.44	-113	9.89	7340.0	MT	980088.29	980722.27	6.18	-250.35	-1.51	0.00	55.94	-189.74	-169.49	
BUTTE :	B0175	46	6.80	-113	11.11	9129.0	MT	979959.17	980719.80	17.59	-311.36	-1.34	0.00	97.34	-197.77	-173.46	
BUTTE :	B0176	46	5.73	-113	13.36	8736.0	MT	979986.39	980718.19	17.35	-297.96	-1.39	0.00	89.26	-192.75	-169.51	
BUTTE :	B0177	46	4.59	-113	14.90	9607.0	MT	979926.94	980716.47	18.75	-327.67	-1.26	0.00	113.33	-196.85	-171.29	
BUTTE :	B0178	46	4.88	-113	12.05	8011.0	MT	980030.94	980716.91	5.49	-273.23	-1.47	0.00	66.99	-202.22	-180.04	
BUTTE :	B0179	46	4.66	-113	9.07	8986.0	MT	979971.93	980716.57	7.20	-305.12	-1.37	0.00	96.14	-203.15	-176.49	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0180	46	1.76	-113	9.89	8956.0	MT	979958.25	980712.20	9.74	-305.46	-1.36	0.00	87.77	-209.32	-184.84	
BUTTE :	B0181	46	3.57	-113	6.36	10280.0	MT	979852.35	980714.93	36.55	-350.62	-1.12	0.00	103.48	-211.71	-185.74	
BUTTE :	B0182	46	4.81	-113	3.96	9976.0	MT	979882.07	980716.80	26.30	-340.25	-1.19	0.00	102.78	-212.36	-186.39	
BUTTE :	B0183	46	5.22	-113	1.70	7890.0	MT	980030.04	980717.41	6.37	-269.10	-1.48	0.00	54.21	-210.00	-188.23	
BUTTE :	B0184	46	6.00	-113	1.31	8012.0	MT	980021.50	980718.59	11.54	-273.27	-1.47	0.00	55.95	-207.24	-185.55	
BUTTE :	B0185	46	7.86	-113	25.50	5911.0	MT	980166.25	980721.40	3.03	-201.61	-1.49	0.00	0.51	-199.56	-183.07	
BUTTE :	B0186	46	9.61	-113	24.29	6393.0	MT	980138.35	980724.04	2.57	-218.05	-1.51	0.00	15.26	-201.73	-183.85	
BUTTE :	B0187	46	10.74	-113	25.81	5955.0	MT	980160.85	980725.74	0.87	-203.11	-1.49	0.00	-5.10	-208.83	-192.04	
BUTTE :	B0188	46	11.60	-113	25.71	5890.0	MT	980168.07	980727.03	1.07	-200.89	-1.49	0.00	-5.28	-206.59	-190.00	
BUTTE :	B0189	46	11.69	-113	24.77	5780.0	MT	980173.31	980727.17	1.04	-197.14	-1.48	0.00	-10.51	-208.09	-191.81	
BUTTE :	B0190	46	14.03	-113	21.26	5458.0	MT	980195.86	980730.70	1.36	-186.16	-1.46	0.00	-21.75	-208.00	-192.66	
BUTTE :	B0191	46	13.36	-113	22.10	5445.0	MT	980197.94	980729.69	1.39	-185.71	-1.46	0.00	-19.88	-205.66	-190.35	
BUTTE :	B0192	46	12.80	-113	18.42	6402.0	MT	980149.36	980728.84	3.91	-218.35	-1.51	0.00	22.31	-193.65	-175.86	
BUTTE :	B0193	46	13.59	-113	19.10	5730.0	MT	980183.70	980730.03	1.96	-195.43	-1.48	0.00	-7.68	-202.64	-186.57	
BUTTE :	B0194	46	14.24	-113	19.59	5580.0	MT	980191.31	980731.02	1.54	-190.32	-1.47	0.00	-15.15	-205.40	-189.72	
BUTTE :	B0195	46	14.81	-113	20.83	5395.0	MT	980200.82	980731.88	1.35	-184.01	-1.45	0.00	-23.88	-207.99	-192.82	
BUTTE :	B0196	46	12.90	-113	21.51	5596.0	MT	980186.37	980728.99	1.64	-190.86	-1.47	0.00	-16.57	-207.26	-191.55	
BUTTE :	B0197	46	13.36	-113	20.84	5555.0	MT	980193.96	980729.69	1.86	-189.46	-1.47	0.00	-13.52	-202.60	-187.02	
BUTTE :	B0198	46	10.83	-113	20.21	6817.0	MT	980118.84	980725.88	5.54	-232.51	-1.52	0.00	33.75	-194.73	-175.91	
BUTTE :	B0199	46	4.06	-113	32.21	5922.0	MT	980153.77	980715.66	3.15	-201.98	-1.49	0.00	-5.20	-205.53	-189.02	
BUTTE :	B0200	46	3.93	-113	32.60	5948.0	MT	980152.63	980715.47	3.21	-202.87	-1.49	0.00	-3.70	-204.86	-188.28	
BUTTE :	B0201	46	2.86	-113	35.09	6104.0	MT	980141.18	980713.86	3.86	-208.19	-1.50	0.00	1.11	-204.72	-187.76	
BUTTE :	B0202	46	0.88	-113	36.84	6355.0	MT	980121.54	980710.88	3.58	-216.75	-1.51	0.00	8.04	-206.64	-188.95	
BUTTE :	B0203	46	1.92	-113	36.72	6213.0	MT	980130.81	980712.44	4.97	-211.91	-1.51	0.00	2.41	-206.04	-188.86	
BUTTE :	B0204	46	1.48	-113	38.55	6970.0	MT	980088.84	980711.78	2.44	-237.73	-1.52	0.00	32.23	-204.58	-185.06	
BUTTE :	B0205	46	1.50	-113	39.79	7296.0	MT	980069.43	980711.80	1.94	-248.85	-1.51	0.00	43.41	-205.01	-184.54	
BUTTE :	B0206	46	2.57	-113	40.65	7546.0	MT	980055.57	980713.42	3.40	-257.37	-1.50	0.00	51.42	-204.05	-183.00	
BUTTE :	B0207	46	2.35	-113	39.99	7355.0	MT	980068.03	980713.09	1.87	-250.86	-1.51	0.00	46.27	-204.22	-183.58	
BUTTE :	B0208	46	1.02	-113	40.62	7442.0	MT	980060.50	980711.09	3.43	-253.83	-1.50	0.00	48.92	-202.98	-182.22	
BUTTE :	B0209	46	0.23	-113	39.54	7943.0	MT	980023.91	980709.89	6.44	-270.91	-1.47	0.00	60.59	-205.36	-183.44	
BUTTE :	B0210	46	0.45	-113	40.61	7350.0	MT	980063.01	980710.23	3.43	-250.69	-1.51	0.00	43.64	-205.12	-184.62	
BUTTE :	B0211	46	4.52	-113	31.19	5882.0	MT	980154.35	980716.36	3.07	-200.62	-1.49	0.00	-9.08	-208.12	-191.72	
BUTTE :	B0212	46	5.03	-113	30.34	5881.0	MT	980154.64	980717.13	2.97	-200.58	-1.49	0.00	-9.65	-208.75	-192.35	
BUTTE :	B0213	46	10.19	-113	10.94	6350.0	MT	980154.04	980724.91	2.07	-216.58	-1.51	0.00	26.04	-189.99	-172.19	
BUTTE :	B0214	46	11.44	-113	11.75	6457.0	MT	980151.01	980726.80	2.30	-220.23	-1.51	0.00	31.17	-188.27	-170.19	
BUTTE :	B0215	46	11.69	-113	12.47	6580.0	MT	980148.84	980727.17	2.12	-224.42	-1.52	0.00	36.19	-187.63	-169.19	
BUTTE :	B0216	46	12.98	-113	12.55	6875.0	MT	980126.17	980729.12	4.14	-234.49	-1.52	0.00	43.29	-188.58	-169.47	
BUTTE :	B0217	46	17.68	-113	38.61	7245.0	MT	980099.73	980736.20	7.90	-247.11	-1.51	0.00	44.53	-196.19	-176.36	
BUTTE :	B0218	46	16.97	-113	40.44	6867.0	MT	980123.11	980735.13	6.36	-234.21	-1.52	0.00	33.46	-195.91	-177.01	
BUTTE :	B0219	46	16.29	-113	41.42	7715.0	MT	980061.25	980734.10	12.49	-263.14	-1.49	0.00	52.29	-199.35	-179.07	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0220	46	16.96	-113	43.68	8015.0	MT	980045.84	980735.12	12.94	-273.37	-1.47	0.00	64.05	-197.84	-176.26
BUTTE :	B0221	46	17.20	-113	49.00	7224.0	MT	980102.48	980735.48	8.88	-246.39	-1.51	0.00	46.03	-192.99	-173.30
BUTTE :	B0222	46	18.30	-113	49.02	8237.0	MT	980034.85	980737.13	17.42	-280.94	-1.45	0.00	71.90	-193.07	-171.24
BUTTE :	B0223	46	18.36	-113	46.81	8656.0	MT	980007.54	980737.23	17.50	-295.23	-1.40	0.00	83.85	-195.29	-172.29
BUTTE :	B0224	46	19.41	-113	45.86	7603.0	MT	980082.73	980738.80	5.19	-259.32	-1.50	0.00	58.55	-197.07	-176.01
BUTTE :	B0225	46	21.33	-113	40.53	6541.0	MT	980146.32	980741.70	3.95	-223.10	-1.51	0.00	19.47	-201.19	-183.01
BUTTE :	B0226	46	11.62	-113	29.04	5455.0	MT	980200.75	980727.06	1.97	-186.05	-1.46	0.00	-13.51	-199.05	-183.76
BUTTE :	B0227	46	11.43	-113	28.36	5508.0	MT	980197.92	980726.78	1.69	-187.86	-1.46	0.00	-11.07	-198.70	-183.24
BUTTE :	B0228	46	11.08	-113	27.36	5630.0	MT	980188.43	980726.25	1.86	-192.02	-1.47	0.00	-8.57	-200.21	-184.42
BUTTE :	B0229	46	10.62	-113	23.43	6293.0	MT	980145.37	980725.55	2.81	-214.64	-1.51	0.00	11.36	-201.97	-184.40
BUTTE :	B0230	46	11.09	-113	22.79	5918.0	MT	980168.44	980726.27	1.20	-201.85	-1.49	0.00	-1.51	-203.65	-187.00
BUTTE :	B0231	46	11.13	-113	24.59	5775.0	MT	980174.91	980726.33	1.01	-196.97	-1.48	0.00	-8.54	-205.98	-189.71
BUTTE :	B0232	46	12.24	-113	24.00	5725.0	MT	980178.76	980728.00	1.07	-195.26	-1.48	0.00	-11.06	-206.74	-190.61
BUTTE :	B0233	46	12.60	-113	23.22	5550.0	MT	980190.57	980728.54	1.27	-189.29	-1.47	0.00	-16.24	-205.73	-190.11
BUTTE :	B0234	46	7.28	-113	25.35	6303.0	MT	980138.09	980720.52	2.00	-214.98	-1.51	0.00	10.06	-204.43	-186.75
BUTTE :	B0235	46	6.57	-113	25.85	6125.0	MT	980148.26	980719.45	4.01	-208.91	-1.50	0.00	4.57	-201.83	-184.82
BUTTE :	B0236	46	4.60	-113	26.84	6780.0	MT	980106.19	980716.48	3.28	-231.25	-1.52	0.00	27.01	-202.47	-183.56
BUTTE :	B0237	46	2.32	-113	26.96	7346.0	MT	980062.98	980713.05	5.46	-250.55	-1.51	0.00	40.42	-206.17	-185.86
BUTTE :	B0238	46	1.90	-113	26.20	7166.0	MT	980074.00	980712.41	6.14	-244.41	-1.51	0.00	35.16	-204.62	-184.86
BUTTE :	B0239	46	1.93	-113	27.08	6920.0	MT	980089.12	980712.45	5.76	-236.02	-1.52	0.00	27.12	-204.65	-185.56
BUTTE :	B0240	46	0.90	-113	27.12	7676.0	MT	980038.37	980710.91	5.10	-261.81	-1.49	0.00	48.95	-209.25	-187.98
BUTTE :	B0241	46	0.97	-113	28.36	7555.0	MT	980046.84	980711.01	4.12	-257.68	-1.50	0.00	45.95	-209.11	-188.09
BUTTE :	B0242	46	0.52	-113	28.37	7780.0	MT	980030.39	980710.33	4.85	-265.35	-1.49	0.00	51.31	-210.67	-189.09
BUTTE :hamil		46	10.00	-114	8.00	3697.0	MT	980317.37	980724.63	7.10	-126.09	-1.20	0.00	-59.67	-179.86	-169.96
BUTTE :	B0243	46	0.19	-113	59.20	6081.0	MT	980143.38	980709.84	2.82	-207.41	-1.50	0.00	5.18	-200.90	-183.92
BUTTE :	B0244	46	1.80	-113	59.41	5868.0	MT	980157.33	980712.26	2.37	-200.14	-1.49	0.00	-3.31	-202.57	-186.15
BUTTE :	B0245	46	3.70	-113	59.45	6562.0	MT	980116.50	980715.13	5.04	-223.81	-1.52	0.00	18.20	-202.08	-183.93
BUTTE :	B0246	46	4.74	-113	59.77	6681.0	MT	980111.53	980716.70	8.05	-227.87	-1.52	0.00	22.85	-198.49	-180.25
BUTTE :	B0247	46	5.45	-113	59.76	6301.0	MT	980129.13	980717.77	11.68	-214.91	-1.51	0.00	3.67	-201.07	-184.20
BUTTE :	B0248	46	2.79	-113	59.89	5790.0	MT	980166.81	980713.75	2.97	-197.48	-1.48	0.00	-2.65	-198.65	-182.50
BUTTE :	B0249	46	2.02	-113	56.16	6653.0	MT	980107.15	980712.59	2.14	-226.91	-1.52	0.00	19.93	-206.36	-187.71
BUTTE :	B0250	46	0.71	-113	57.39	6320.0	MT	980128.56	980710.62	2.84	-215.56	-1.51	0.00	12.04	-202.19	-184.54
BUTTE :	B0251	45	59.46	-113	51.30	6978.0	MT	980084.95	980708.73	2.12	-238.00	-1.52	0.00	32.13	-205.26	-185.70
BUTTE :	B0252	46	0.59	-113	53.13	7005.0	MT	980083.74	980710.44	3.92	-238.92	-1.52	0.00	31.75	-204.76	-185.27
BUTTE :	B0253	46	1.14	-113	54.77	7002.0	MT	980083.37	980711.27	5.65	-238.82	-1.52	0.00	30.27	-204.42	-185.08
BUTTE :	B0254	46	1.68	-113	53.76	6561.0	MT	980112.98	980712.08	1.80	-223.78	-1.52	0.00	17.64	-205.85	-187.48
BUTTE :	B0255	46	0.72	-113	49.92	7334.0	MT	980063.91	980710.63	3.92	-250.14	-1.51	0.00	42.64	-205.09	-184.68
BUTTE :	B0256	46	1.74	-113	48.28	8135.0	MT	980015.47	980712.17	8.06	-277.46	-1.46	0.00	67.90	-202.96	-180.64
BUTTE :	B0257	46	7.76	-113	51.19	5196.0	MT	980199.85	980721.25	7.69	-177.22	-1.43	0.00	-32.93	-203.89	-189.80
BUTTE :	B0258	46	6.36	-113	51.68	5710.0	MT	980165.90	980719.13	7.21	-194.75	-1.48	0.00	-16.47	-205.49	-189.91

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0259	46	2.27	-113	49.83	7545.0	MT	980054.29	980712.97	4.30	-257.34 -1.50	0.00	50.50	-204.04	-183.06	
BUTTE :	B0260	46	3.37	-113	52.12	6904.0	MT	980095.89	980714.63	2.88	-235.48 -1.52	0.00	30.22	-203.89	-184.60	
BUTTE :	B0261	46	3.49	-113	53.62	6150.0	MT	980141.91	980714.80	2.75	-209.76 -1.50	0.00	5.22	-203.29	-186.11	
BUTTE :	B0262	46	3.50	-113	51.12	7210.0	MT	980075.86	980714.82	3.61	-245.91 -1.51	0.00	38.74	-205.07	-184.98	
BUTTE :	B0263	46	5.29	-113	51.26	7339.0	MT	980070.83	980717.52	7.40	-250.31 -1.51	0.00	43.13	-201.29	-181.15	
BUTTE :	B0264	46	6.90	-113	52.92	6961.0	MT	980096.39	980719.95	6.76	-237.42 -1.52	0.00	30.75	-201.42	-182.29	
BUTTE :	B0265	46	7.48	-113	56.36	6704.0	MT	980113.03	980720.82	5.20	-228.65 -1.52	0.00	22.37	-202.60	-184.06	
BUTTE :	B0266	46	8.13	-113	58.24	6862.0	MT	980097.97	980721.80	11.14	-234.04 -1.52	0.00	21.18	-203.24	-184.75	
BUTTE :	B0267	46	5.76	-113	54.57	6795.0	MT	980106.00	980718.23	2.34	-231.76 -1.52	0.00	26.49	-204.45	-185.42	
BUTTE :	B0268	46	4.69	-113	56.13	7041.0	MT	980088.61	980716.62	7.26	-240.15 -1.52	0.00	33.82	-200.58	-181.27	
BUTTE :	B0269	46	7.52	-113	54.95	7516.0	MT	980056.99	980720.88	11.76	-256.35 -1.50	0.00	42.56	-203.53	-183.25	
BUTTE :	B0270	46	8.44	-113	54.95	7529.0	MT	980054.18	980722.27	14.55	-256.79 -1.50	0.00	39.58	-204.16	-184.08	
BUTTE :	B0271	46	9.51	-113	53.00	4820.0	MT	980223.90	980723.88	9.05	-164.40 -1.39	0.00	-46.85	-203.59	-190.67	
BUTTE :	B0272	46	10.24	-113	54.51	4660.0	MT	980233.02	980724.98	9.61	-158.94 -1.37	0.00	-53.86	-204.56	-192.14	
BUTTE :	B0273	46	3.11	-113	33.77	6100.0	MT	980139.77	980714.23	3.26	-208.05 -1.50	0.00	-1.04	-207.34	-190.34	
BUTTE :	B0274	46	1.90	-113	33.84	6500.0	MT	980113.30	980712.41	3.31	-221.70 -1.51	0.00	11.89	-208.01	-189.89	
BUTTE :	B0275	46	0.26	-113	34.82	7810.0	MT	980032.55	980709.94	5.30	-266.38 -1.48	0.00	56.68	-205.88	-184.24	
BUTTE :	B0276	46	4.53	-113	35.67	7252.0	MT	980077.51	980716.38	4.55	-247.34 -1.51	0.00	42.78	-201.52	-181.39	
BUTTE :	B0277	46	3.65	-113	35.35	6530.0	MT	980119.46	980715.05	2.29	-222.72 -1.51	0.00	18.23	-203.71	-185.43	
BUTTE :	B0278	46	3.31	-113	31.85	6038.0	MT	980143.71	980714.54	3.21	-205.94 -1.50	0.00	-3.24	-207.46	-190.63	
BUTTE :	B0279	46	1.95	-113	31.40	6100.0	MT	980135.85	980712.48	5.70	-208.05 -1.50	0.00	-3.22	-207.07	-190.27	
BUTTE :	B0280	46	0.15	-113	31.60	6322.0	MT	980121.07	980709.77	8.25	-215.63 -1.51	0.00	5.58	-203.31	-186.10	
BUTTE :	B0281	46	2.26	-113	29.68	6500.0	MT	980110.02	980712.95	7.23	-221.70 -1.51	0.00	8.07	-207.91	-190.11	
BUTTE :	B0282	46	5.76	-113	32.27	6220.0	MT	980139.62	980718.23	2.24	-212.15 -1.51	0.00	6.08	-205.33	-187.91	
BUTTE :	B0283	46	6.02	-113	30.16	5852.0	MT	980159.02	980718.63	2.19	-199.59 -1.49	0.00	-9.49	-208.38	-191.99	
BUTTE :	B0284	46	11.06	-113	30.11	5454.0	MT	980197.27	980726.22	1.40	-186.02 -1.46	0.00	-16.23	-202.31	-186.98	
BUTTE :	B0285	46	9.80	-113	33.12	5609.0	MT	980186.44	980724.32	2.48	-191.31 -1.47	0.00	-10.61	-200.98	-185.26	
BUTTE :	B0286	46	9.29	-113	34.11	5636.0	MT	980185.36	980723.55	2.83	-192.23 -1.47	0.00	-8.38	-199.25	-183.52	
BUTTE :	B0287	46	8.87	-113	34.54	5710.0	MT	980179.26	980722.92	2.63	-194.75 -1.48	0.00	-6.89	-200.49	-184.54	
BUTTE :	B0288	46	8.66	-113	37.39	6183.0	MT	980149.53	980722.60	1.91	-210.88 -1.50	0.00	8.14	-202.34	-184.99	
BUTTE :	B0289	46	7.83	-113	39.03	6644.0	MT	980117.70	980721.35	2.25	-226.61 -1.52	0.00	20.88	-204.99	-186.38	
BUTTE :	B0290	46	7.01	-113	35.41	6070.0	MT	980157.46	980720.12	2.19	-207.03 -1.50	0.00	2.94	-203.40	-186.39	
BUTTE :	B0291	46	7.77	-113	36.42	5946.0	MT	980164.11	980721.26	2.04	-202.80 -1.49	0.00	1.79	-200.46	-183.79	
BUTTE :	B0292	46	10.74	-113	29.60	5533.0	MT	980191.48	980725.74	1.35	-188.71 -1.46	0.00	-14.12	-202.95	-187.39	
BUTTE :	B0293	46	8.66	-113	29.60	5622.0	MT	980181.98	980722.60	2.35	-191.75 -1.47	0.00	-12.12	-202.99	-187.26	
BUTTE :	B0294	46	10.53	-113	28.04	5558.0	MT	980189.08	980725.42	1.38	-189.57 -1.47	0.00	-13.86	-203.51	-187.88	
BUTTE :	B0295	46	12.43	-113	30.26	5353.0	MT	980205.38	980728.29	3.43	-182.57 -1.45	0.00	-19.68	-200.28	-185.40	
BUTTE :	B0296	46	12.19	-113	34.72	6244.0	MT	980150.94	980727.92	1.97	-212.96 -1.51	0.00	9.96	-202.54	-185.03	
BUTTE :	B0297	46	11.39	-113	34.29	6250.0	MT	980150.77	980726.72	2.55	-213.17 -1.51	0.00	11.56	-200.56	-183.08	
BUTTE :	B0298	46	12.68	-113	35.24	5909.0	MT	980171.94	980728.66	2.64	-201.54 -1.49	0.00	-1.26	-201.65	-185.14	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0299	46	9.80	-114	1.04	4179.0	MT	980267.54	980724.32	7.04	-142.53	-1.29	0.00	-63.89	-200.68	-189.41	
BUTTE :	B0300	46	9.56	-113	58.93	4289.0	MT	980255.27	980723.96	10.16	-146.29	-1.31	0.00	-65.46	-202.89	-191.57	
BUTTE :	B0301	46	9.81	-113	57.32	4430.0	MT	980246.00	980724.34	10.72	-151.09	-1.33	0.00	-61.86	-203.56	-191.89	
BUTTE :	B0302	46	9.95	-113	56.15	4550.0	MT	980238.47	980724.55	10.63	-155.19	-1.35	0.00	-58.32	-204.23	-192.21	
BUTTE :	B0303	46	10.08	-113	58.56	5547.0	MT	980184.15	980724.74	5.73	-189.19	-1.47	0.00	-19.14	-204.07	-188.83	
BUTTE :	B0304	46	10.32	-113	56.61	5730.0	MT	980172.66	980725.11	7.88	-195.43	-1.48	0.00	-13.79	-202.83	-187.25	
BUTTE :	B0305	46	11.38	-113	56.52	6390.0	MT	980136.08	980726.70	10.52	-217.94	-1.51	0.00	10.04	-198.90	-181.68	
BUTTE :	B0306	46	12.20	-113	56.11	5761.0	MT	980176.69	980727.94	4.73	-196.49	-1.48	0.00	-9.69	-202.93	-187.01	
BUTTE :	B0307	46	12.17	-113	57.23	5971.0	MT	980167.82	980727.89	3.55	-203.65	-1.49	0.00	1.22	-200.38	-183.77	
BUTTE :	B0308	46	12.47	-113	58.14	6042.0	MT	980161.77	980728.34	7.35	-206.08	-1.50	0.00	1.39	-198.83	-182.33	
BUTTE :	B0309	46	12.81	-113	56.66	6811.0	MT	980115.53	980728.86	8.10	-232.30	-1.52	0.00	26.89	-198.83	-180.23	
BUTTE :	B0310	46	11.31	-113	55.30	6683.0	MT	980121.27	980726.60	7.20	-227.94	-1.52	0.00	22.87	-199.39	-181.07	
BUTTE :	B0311	46	12.45	-113	54.64	7702.0	MT	980058.54	980728.32	16.48	-262.69	-1.49	0.00	50.15	-197.56	-177.15	
BUTTE :	B0312	46	12.89	-113	53.27	7485.0	MT	980076.14	980728.98	12.58	-255.29	-1.50	0.00	50.70	-193.51	-173.39	
BUTTE :	B0313	46	14.32	-113	53.32	7869.0	MT	980056.10	980731.13	9.34	-268.39	-1.48	0.00	64.58	-195.95	-174.48	
BUTTE :	B0314	46	13.94	-113	55.09	7559.0	MT	980071.72	980730.56	11.73	-257.82	-1.50	0.00	51.65	-195.98	-175.54	
BUTTE :	B0315	46	10.88	-113	59.59	5676.0	MT	980182.28	980725.95	4.79	-193.59	-1.48	0.00	-10.10	-200.37	-184.69	
BUTTE :	B0316	46	11.14	-113	53.50	8825.0	MT	980225.50	980726.34	12.42	-164.57	-1.39	0.00	-47.24	-200.77	-188.12	
BUTTE :	B0317	46	11.75	-113	52.06	5125.0	MT	980212.36	980727.26	8.78	-174.80	-1.42	0.00	-33.11	-200.55	-186.75	
BUTTE :	B0318	46	12.32	-113	51.60	5264.0	MT	980205.41	980728.12	9.66	-179.58	-1.44	0.00	-27.85	-199.17	-185.05	
BUTTE :	B0319	46	10.58	-113	50.88	6242.0	MT	980149.32	980725.50	3.17	-212.90	-1.51	0.00	10.58	-200.65	-183.25	
BUTTE :	B0320	46	12.95	-113	51.13	5460.0	MT	980193.75	980729.07	8.16	-186.23	-1.46	0.00	-22.04	-201.57	-186.77	
BUTTE :	B0321	46	14.25	-113	50.52	5830.0	MT	980175.89	980731.03	7.51	-198.84	-1.49	0.00	-7.10	-199.92	-184.03	
BUTTE :	B0322	46	15.22	-113	49.52	6168.0	MT	980156.54	980732.49	7.40	-210.37	-1.50	0.00	3.85	-200.62	-183.78	
BUTTE :	B0323	46	15.27	-113	48.03	6632.0	MT	980132.77	980732.57	4.62	-226.20	-1.52	0.00	23.61	-199.49	-181.11	
BUTTE :	B0324	46	14.72	-113	46.33	7260.0	MT	980097.80	980731.74	3.49	-247.62	-1.51	0.00	48.46	-197.18	-176.94	
BUTTE :	B0325	46	13.99	-113	45.31	7038.0	MT	980109.89	980730.64	3.28	-240.05	-1.52	0.00	40.80	-197.48	-177.85	
BUTTE :	B0326	46	10.99	-113	45.48	6520.0	MT	980132.56	980726.12	2.12	-222.38	-1.51	0.00	19.33	-202.45	-184.17	
BUTTE :	B0327	46	9.05	-113	45.75	6750.0	MT	980117.84	980723.19	2.38	-230.22	-1.52	0.00	29.14	-200.22	-181.32	
BUTTE :	B0328	46	9.71	-113	46.25	6680.0	MT	980122.41	980724.19	2.54	-227.84	-1.52	0.00	26.14	-200.67	-181.98	
BUTTE :	B0329	46	11.99	-113	45.82	6630.0	MT	980129.99	980727.63	1.97	-226.13	-1.52	0.00	25.58	-200.10	-181.50	
BUTTE :	B0330	46	15.90	-113	47.35	7604.0	MT	980078.54	980733.52	5.51	-259.35	-1.50	0.00	59.74	-195.60	-174.56	
BUTTE :	B0331	46	16.20	-113	48.34	7488.0	MT	980083.76	980733.97	6.38	-255.39	-1.50	0.00	53.61	-196.95	-176.30	
BUTTE :	B0332	46	17.77	-113	59.32	4305.0	MT	980278.80	980736.34	4.69	-146.83	-1.31	0.00	-52.81	-196.26	-184.44	
BUTTE :	B0333	46	17.72	-113	58.28	4463.0	MT	980266.98	980736.26	6.04	-152.22	-1.34	0.00	-49.70	-197.21	-185.06	
BUTTE :	B0334	46	17.60	-113	55.96	5120.0	MT	980223.01	980736.08	9.77	-174.63	-1.42	0.00	-31.75	-198.03	-184.33	
BUTTE :	B0335	46	18.23	-113	56.24	5841.0	MT	980188.01	980737.03	5.49	-199.22	-1.49	0.00	0.06	-195.16	-179.07	
BUTTE :	B0336	46	18.87	-113	55.98	6702.0	MT	980139.94	980737.99	8.55	-228.59	-1.52	0.00	31.92	-189.63	-171.38	
BUTTE :	B0337	46	18.74	-113	55.07	7138.0	MT	980112.09	980737.80	10.77	-243.46	-1.51	0.00	45.23	-188.97	-169.67	
BUTTE :	B0338	46	19.26	-113	54.21	8202.0	MT	980040.82	980738.58	21.81	-279.75	-1.45	0.00	73.13	-186.26	-164.89	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 08/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0339	46	17.95	-113	52.26	8463.0	MT	980021.85	980736.61	18.78	-288.65	-1.43	0.00	80.65	-190.68	-168.29	
BUTTE :	B0340	46	17.39	-113	51.21	8399.0	MT	980029.76	980735.77	11.55	-286.47	-1.43	0.00	83.39	-192.96	-170.19	
BUTTE :	B0341	46	16.32	-113	51.98	8025.0	MT	980051.84	980734.15	8.49	-273.71	-1.47	0.00	71.96	-194.73	-172.75	
BUTTE :	B0342	46	18.26	-113	50.24	7286.0	MT	980105.20	980737.07	4.58	-247.14	-1.51	0.00	49.21	-194.90	-174.78	
BUTTE :	B0343	46	19.82	-113	49.45	7210.0	MT	980109.31	980739.42	7.84	-245.91	-1.51	0.00	47.59	-191.99	-172.25	
BUTTE :	B0344	46	19.37	-113	52.06	7650.0	MT	980083.60	980738.75	7.97	-260.92	-1.49	0.00	63.89	-190.55	-169.59	
BUTTE :	B0345	46	16.71	-113	59.80	8686.0	MT	980253.11	980734.73	3.28	-159.83	-1.37	0.00	-41.09	-199.01	-185.99	
BUTTE :	B0346	46	16.47	-113	58.64	5264.0	MT	980225.58	980734.38	5.08	-179.54	-1.44	0.00	-13.94	-189.84	-175.35	
BUTTE :	B0347	46	14.74	-113	59.24	6176.0	MT	980155.68	980731.77	7.95	-210.65	-1.50	0.00	4.47	-199.73	-182.91	
BUTTE :	B0348	46	15.61	-113	53.52	7394.0	MT	980096.39	980733.08	6.63	-252.19	-1.51	0.00	58.30	-188.76	-168.41	
BUTTE :	B0349	46	15.51	-113	55.31	7350.0	MT	980090.48	980732.93	11.44	-250.69	-1.51	0.00	48.41	-192.34	-172.51	
BUTTE :	B0350	46	15.56	-113	58.18	6765.0	MT	980119.76	980733.01	12.58	-230.73	-1.52	0.00	22.65	-197.02	-178.92	
BUTTE :	B0351	46	13.65	-113	59.52	4802.0	MT	980237.37	980730.13	5.83	-163.78	-1.39	0.00	-41.32	-200.66	-187.53	
BUTTE :	B0352	46	12.82	-113	59.93	4620.0	MT	980247.17	980728.88	6.41	-157.58	-1.36	0.00	-47.36	-199.89	-187.32	
BUTTE :	B0353	46	6.98	-113	39.38	6235.0	MT	980140.87	980720.07	2.40	-212.66	-1.51	0.00	6.90	-204.87	-187.42	
BUTTE :	B0354	46	6.70	-113	40.47	6245.0	MT	980137.89	980719.65	2.96	-213.00	-1.51	0.00	5.28	-206.26	-188.83	
BUTTE :	B0355	46	5.35	-113	39.81	6550.0	MT	980119.81	980717.61	3.04	-223.40	-1.51	0.00	17.90	-203.98	-185.70	
BUTTE :	B0356	46	6.03	-113	39.58	6500.0	MT	980122.44	980718.68	2.64	-221.70	-1.51	0.00	14.80	-205.77	-187.60	
BUTTE :	B0357	46	7.56	-113	37.12	5890.0	MT	980166.05	980720.95	3.96	-200.89	-1.49	0.00	-1.21	-199.63	-183.29	
BUTTE :	B0358	46	8.24	-113	35.35	5790.0	MT	980172.55	980721.97	2.44	-197.48	-1.48	0.00	-5.14	-201.66	-185.47	
BUTTE :	B0359	46	10.39	-113	32.36	5510.0	MT	980193.76	980725.21	2.36	-187.93	-1.46	0.00	-13.48	-200.51	-185.10	
BUTTE :	B0360	46	10.69	-113	31.39	5500.0	MT	980193.83	980725.66	2.32	-187.59	-1.46	0.00	-14.80	-201.53	-186.14	
BUTTE :	B0362	46	30.98	-113	50.89	5850.0	MT	980220.25	980756.24	2.41	-199.53	-1.49	0.00	13.93	-184.68	-168.31	
BUTTE :	B0363	46	31.64	-113	49.65	6804.0	MT	980159.38	980757.23	8.62	-232.06	-1.52	0.00	41.70	-183.26	-164.72	
BUTTE :	B0364	46	31.11	-113	48.47	6345.0	MT	980184.87	980756.44	9.31	-216.41	-1.51	0.00	24.86	-183.75	-166.56	
BUTTE :	B0365	46	31.77	-113	50.87	6420.0	MT	980185.87	980757.43	6.68	-218.97	-1.51	0.00	31.51	-182.29	-164.67	
BUTTE :	B0366	46	33.05	-113	50.38	6573.0	MT	980178.82	980759.36	7.08	-224.19	-1.52	0.00	37.31	-181.31	-163.30	
BUTTE :	B0367	46	33.39	-113	46.19	7036.0	MT	980140.89	980759.88	15.74	-239.98	-1.52	0.00	41.97	-183.78	-165.18	
BUTTE :	B0368	46	32.96	-113	47.04	6755.0	MT	980169.25	980759.23	10.22	-230.39	-1.52	0.00	44.97	-176.72	-158.45	
BUTTE :	B0369	46	33.95	-113	48.18	7231.0	MT	980138.39	980760.72	10.69	-246.63	-1.51	0.00	57.34	-180.11	-160.54	
BUTTE :	B0370	46	33.89	-113	49.03	6980.0	MT	980158.45	980760.63	8.76	-238.07	-1.52	0.00	53.91	-176.91	-157.89	
BUTTE :	B0371	46	37.06	-113	50.72	6413.0	MT	980196.78	980765.41	6.75	-218.73	-1.51	0.00	34.20	-179.30	-161.70	
BUTTE :	B0374	46	36.50	-113	46.61	5750.0	MT	980238.81	980764.56	5.89	-196.12	-1.48	0.00	13.97	-177.74	-161.94	
BUTTE :	B0375	46	36.22	-113	45.91	5560.0	MT	980248.59	980764.14	6.40	-189.64	-1.47	0.00	7.13	-177.58	-162.36	
BUTTE :	B0376	46	35.54	-113	45.95	5190.0	MT	980266.50	980763.12	8.68	-177.02	-1.43	0.00	-8.71	-178.48	-164.49	
BUTTE :	B0377	46	34.27	-113	44.57	4460.0	MT	980298.79	980761.20	13.16	-152.12	-1.34	0.00	-43.11	-183.41	-171.85	
BUTTE :	B0378	46	33.80	-113	42.38	4080.0	MT	980322.52	980760.49	10.58	-139.16	-1.27	0.00	-54.39	-184.24	-173.58	
BUTTE :	B0379	46	41.29	-113	46.71	5453.0	MT	980271.55	980771.77	5.38	-185.99	-1.46	0.00	12.38	-169.68	-154.68	
BUTTE :	B0380	46	40.39	-113	46.89	6086.0	MT	980226.35	980770.42	12.50	-207.58	-1.50	0.00	28.02	-168.55	-152.35	
BUTTE :	B0381	46	39.70	-113	50.41	6096.0	MT	980231.71	980769.38	7.68	-207.92	-1.50	0.00	35.36	-166.37	-149.75	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0382	46	38.62	-113	50.90	6145.0	MT	980221.50	980767.75	11.04	-209.59	-1.50	0.00	31.38	-168.67	-152.18	
BUTTE :	B0383	46	38.77	-113	49.28	6644.0	MT	980188.96	980767.98	6.26	-226.61	-1.52	0.00	45.50	-176.36	-158.08	
BUTTE :	B0384	46	37.83	-113	48.00	7272.0	MT	980148.05	980766.56	11.50	-248.03	-1.51	0.00	65.01	-173.03	-153.42	
BUTTE :	B0385	46	37.70	-113	46.54	7449.0	MT	980137.57	980766.37	11.18	-254.06	-1.50	0.00	71.35	-173.03	-152.90	
BUTTE :	B0386	46	37.59	-113	45.33	7723.0	MT	980118.86	980766.20	16.95	-263.41	-1.49	0.00	74.55	-173.40	-152.97	
BUTTE :	B0387	46	38.09	-113	43.63	7481.0	MT	980128.37	980766.95	19.43	-255.16	-1.50	0.00	64.57	-172.66	-153.11	
BUTTE :	B0388	46	37.91	-113	41.98	7055.0	MT	980155.08	980766.69	18.36	-240.63	-1.51	0.00	51.53	-172.25	-153.81	
BUTTE :	B0389	46	37.92	-113	40.92	6916.0	MT	980164.07	980766.70	20.12	-235.89	-1.52	0.00	47.45	-169.83	-151.93	
BUTTE :	B0390	46	44.13	-113	41.89	3510.0	MT	980391.67	980776.05	5.00	-119.72	-1.16	0.00	-54.38	-170.25	-160.71	
BUTTE :	B0391	46	46.61	-113	42.78	3462.0	MT	980404.48	980779.79	4.39	-118.08	-1.15	0.00	-49.81	-164.65	-155.19	
BUTTE :	B0392	46	47.30	-113	43.60	3442.0	MT	980406.94	980780.83	5.47	-117.40	-1.15	0.00	-50.28	-163.35	-154.03	
BUTTE :	B0393	46	46.78	-113	41.92	3557.0	MT	980397.59	980780.05	5.47	-121.32	-1.17	0.00	-48.03	-165.05	-155.41	
BUTTE :	B0394	46	46.78	-113	40.38	3897.0	MT	980378.60	980780.05	6.05	-132.92	-1.24	0.00	-39.06	-167.17	-156.61	
BUTTE :	B0395	46	42.99	-113	40.07	3590.0	MT	980386.20	980774.34	4.55	-122.44	-1.18	0.00	-50.61	-169.68	-159.87	
BUTTE :	B0396	46	41.92	-113	40.06	3595.0	MT	980380.93	980772.73	6.45	-122.62	-1.18	0.00	-53.80	-171.14	-161.47	
BUTTE :	B0397	46	40.68	-113	39.90	3644.0	MT	980373.50	980770.86	9.64	-124.29	-1.19	0.00	-54.76	-170.59	-161.05	
BUTTE :	B0398	46	39.29	-113	39.31	3730.0	MT	980366.70	980768.77	7.86	-127.22	-1.21	0.00	-51.38	-171.94	-162.01	
BUTTE :	B0399	46	38.04	-113	38.66	3780.0	MT	980357.27	980766.88	10.08	-128.92	-1.22	0.00	-54.22	-174.28	-164.39	
BUTTE :	B0400	46	36.73	-113	38.86	3844.0	MT	980348.09	980764.91	8.59	-131.11	-1.23	0.00	-55.41	-179.16	-168.96	
BUTTE :	B0401	46	36.70	-113	40.11	4000.0	MT	980336.47	980764.86	12.83	-136.43	-1.26	0.00	-52.33	-177.19	-166.90	
BUTTE :	B0402	46	35.80	-113	39.32	3870.0	MT	980342.24	980763.51	10.49	-132.00	-1.24	0.00	-57.42	-180.16	-170.04	
BUTTE :	B0403	46	34.98	-113	40.32	3959.0	MT	980334.28	980762.27	8.40	-135.03	-1.25	0.00	-55.78	-183.66	-173.13	
BUTTE :	B0404	46	34.15	-113	41.45	3970.0	MT	980328.42	980761.02	11.32	-135.41	-1.25	0.00	-59.35	-184.69	-174.36	
BUTTE :	B0405	46	32.03	-113	45.10	4140.0	MT	980311.97	980757.83	11.58	-141.20	-1.28	0.00	-56.64	-187.54	-176.76	
BUTTE :	B0406	46	31.18	-113	45.99	4150.0	MT	980309.17	980756.55	9.31	-141.54	-1.29	0.00	-57.21	-190.73	-179.73	
BUTTE :	B0407	46	29.39	-113	46.37	4260.0	MT	980293.73	980753.84	11.69	-145.30	-1.31	0.00	-59.61	-194.52	-183.41	
BUTTE :	B0408	46	27.73	-113	46.39	4322.0	MT	980285.97	980751.34	10.88	-147.41	-1.32	0.00	-59.85	-196.90	-185.54	
BUTTE :	B0409	46	26.54	-113	45.41	4390.0	MT	980278.98	980749.55	10.82	-149.73	-1.33	0.00	-57.85	-198.09	-186.53	
BUTTE :	B0410	46	26.15	-113	44.61	4444.0	MT	980274.43	980748.97	10.99	-151.57	-1.33	0.00	-56.74	-198.66	-186.97	
BUTTE :	B0411	46	25.33	-113	42.99	4460.0	MT	980269.03	980747.73	12.37	-152.12	-1.34	0.00	-59.40	-200.49	-188.86	
BUTTE :	B0412	46	24.17	-113	41.19	4570.0	MT	980263.80	980745.98	9.09	-155.87	-1.35	0.00	-52.55	-200.68	-188.47	
BUTTE :	B0413	46	23.48	-113	40.11	4607.0	MT	980260.03	980744.95	9.24	-157.13	-1.36	0.00	-51.80	-201.05	-188.75	
BUTTE :	B0414	46	22.48	-113	38.77	4671.0	MT	980258.95	980743.48	8.11	-159.31	-1.37	0.00	-45.35	-197.93	-185.35	
BUTTE :	B0415	46	21.45	-113	37.60	4726.0	MT	980256.78	980741.88	5.60	-161.19	-1.38	0.00	-40.80	-197.77	-184.84	
BUTTE :	B0416	46	21.00	-113	36.33	4793.0	MT	980253.63	980741.20	4.83	-163.48	-1.38	0.00	-36.98	-197.01	-183.82	
BUTTE :	B0417	46	20.08	-113	35.10	4820.0	MT	980248.89	980739.82	6.16	-164.40	-1.39	0.00	-37.79	-197.42	-184.27	
BUTTE :	B0418	46	19.35	-113	34.02	4875.0	MT	980248.22	980738.72	4.64	-166.27	-1.40	0.00	-36.20	-199.23	-185.79	
BUTTE :	B0419	46	19.75	-113	32.19	4919.0	MT	980248.18	980739.32	2.65	-167.77	-1.40	0.00	-32.70	-199.23	-185.51	
BUTTE :	B0420	46	18.56	-113	30.89	4996.0	MT	980235.00	980737.52	2.03	-170.40	-1.41	0.00	-32.85	-202.63	-188.64	
BUTTE :	B0421	46	17.55	-113	30.89	5046.0	MT	980231.48	980736.01	2.24	-172.10	-1.42	0.00	-30.15	-201.43	-187.32	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0422	46	16.39	-113	30.96	5113.0	MT	980224.08	980734.26	2.44	-174.39 -1.42	0.00	-29.51	-202.88	-188.60	
BUTTE :	B0423	46	15.33	-113	31.21	5166.0	MT	980220.09	980732.66	2.92	-176.20 -1.43	0.00	-26.91	-201.62	-187.23	
BUTTE :	B0424	46	14.32	-113	31.17	5220.0	MT	980217.69	980731.13	2.96	-178.04 -1.44	0.00	-22.72	-199.24	-184.69	
BUTTE :	B0425	46	13.43	-113	31.30	5250.0	MT	980214.01	980729.80	3.81	-179.06 -1.44	0.00	-22.24	-198.93	-184.37	
BUTTE :	fair	46	3.30	-112	45.60	5200.0	MT	980189.30	980714.52	0.87	-177.36 -1.43	0.00	-36.38	-214.30	-199.64	
BUTTE :	B0493	46	9.70	-113	2.79	5603.0	MT	980182.81	980724.17	4.95	-191.10 -1.47	0.00	-14.65	-202.27	-186.81	
BUTTE :	B0494	46	9.50	-113	1.15	5521.0	MT	980184.30	980723.87	3.69	-188.31 -1.46	0.00	-20.56	-206.64	-191.31	
BUTTE :	B0495	46	9.35	-113	2.26	5566.0	MT	980182.29	980723.64	4.17	-189.84 -1.47	0.00	-18.11	-205.25	-189.83	
BUTTE :	B0496	46	9.83	-113	4.82	5751.0	MT	980177.67	980724.37	6.30	-196.15 -1.48	0.00	-6.07	-197.40	-181.64	
BUTTE :	B0497	46	9.79	-113	6.87	5880.0	MT	980176.03	980724.30	4.4[illegible]	-200.55 -1.49	0.00	4.47	-193.16	-176.88	
BUTTE :	B0498	46	9.94	-113	9.09	6027.0	MT	980170.67	980724.53	3.31	-205.56 -1.50	0.00	12.70	-191.06	-174.27	
BUTTE :	B0499	46	6.56	-113	15.86	7811.0	MT	980056.32	980719.44	4.44	-266.41 -1.48	0.00	71.05	-192.41	-170.70	
BUTTE :	B0500	46	4.53	-113	16.07	8160.0	MT	980031.20	980716.38	5.01	-278.31 -1.46	0.00	81.78	-192.98	-170.34	
BUTTE :	B0501	46	2.93	-113	16.70	9200.0	MT	979949.48	980713.96	8.56	-313.79 -1.33	0.00	100.16	-206.40	-181.14	
BUTTE :	B0502	46	2.19	-113	15.92	8270.0	MT	980002.86	980712.85	4.70	-282.07 -1.45	0.00	67.30	-211.52	-188.54	
BUTTE :	B0503	46	2.02	-113	14.17	7490.0	MT	980046.03	980712.59	8.40	-255.46 -1.50	0.00	37.45	-211.11	-190.63	
BUTTE :	B0504	46	3.92	-113	15.84	8230.0	MT	980021.56	980715.45	8.62	-280.70 -1.45	0.00	79.63	-193.90	-171.36	
BUTTE :	B0505	46	5.68	-113	15.98	7670.0	MT	980062.62	980718.11	3.58	-261.60 -1.49	0.00	65.43	-194.09	-172.70	
BUTTE :	B0506	46	3.82	-113	0.34	6294.0	MT	980125.06	980715.30	5.58	-214.67 -1.51	0.00	1.40	-209.20	-191.84	
BUTTE :	B0507	46	0.31	-113	2.62	7048.0	MT	980071.49	980710.02	3.20	-240.39 -1.51	0.00	23.97	-214.74	-195.07	
BUTTE :	B0508	46	2.74	-113	3.78	8069.0	MT	980011.84	980713.68	6.11	-275.21 -1.46	0.00	56.57	-214.00	-191.70	
BUTTE :	B0509	46	2.43	-113	4.62	7765.0	MT	980032.35	980713.21	4.25	-264.84 -1.49	0.00	48.99	-213.09	-191.50	
BUTTE :	B0510	46	2.43	-113	2.30	7565.0	MT	980044.20	980713.21	3.96	-258.02 -1.50	0.00	42.05	-213.51	-192.45	
BUTTE :	B0511	46	1.39	-113	0.97	7660.0	MT	980035.58	980711.64	4.51	-261.26 -1.49	0.00	43.92	-214.32	-193.05	
BUTTE :	B0512	46	0.30	-113	1.50	7125.0	MT	980070.83	980710.00	2.83	-243.01 -1.51	0.00	30.55	-211.14	-191.23	
BUTTE :	B0513	46	0.36	-113	5.64	7020.0	MT	980069.18	980710.09	3.02	-239.43 -1.52	0.00	18.95	-218.98	-199.37	
BUTTE :	B0514	46	0.19	-113	11.66	6970.0	MT	980069.45	980709.84	5.84	-237.73 -1.52	0.00	14.78	-218.62	-199.39	
BUTTE :	B0515	46	7.82	-113	0.24	5764.0	MT	980163.78	980721.34	3.28	-196.59 -1.48	0.00	-15.71	-210.51	-194.45	
BUTTE :	B0516	46	7.13	-113	2.64	6920.0	MT	980094.29	980720.30	5.37	-236.02 -1.52	0.00	24.45	-207.71	-188.58	
BUTTE :	B0517	46	5.84	-113	4.27	8203.0	MT	980011.01	980718.38	8.08	-279.78 -1.45	0.00	63.61	-209.54	-187.03	
BUTTE :	B0518	46	9.01	-113	10.99	6490.0	MT	980141.40	980723.13	3.07	-221.35 -1.51	0.00	28.33	-191.47	-173.36	
BUTTE :	B0519	46	8.15	-113	12.29	6700.0	MT	980127.65	980721.84	4.15	-228.52 -1.52	0.00	35.60	-190.28	-171.67	
BUTTE :	B0520	46	6.50	-113	12.71	7150.0	MT	980090.73	980719.34	4.64	-243.87 -1.51	0.00	43.46	-197.28	-177.45	
BUTTE :	B0522	46	8.59	-113	7.60	6480.0	MT	980137.01	980722.50	3.80	-221.01 -1.51	0.00	23.63	-195.10	-177.08	
BUTTE :	B0523	46	6.24	-113	7.36	7951.0	MT	980033.78	980718.95	5.81	-271.19 -1.47	0.00	62.14	-204.71	-182.72	
BUTTE :	B0524	46	8.75	-113	5.35	8037.0	MT	980026.92	980722.74	17.06	-274.12 -1.47	0.00	59.58	-198.95	-177.65	
BUTTE :	B0525	46	7.93	-113	6.36	7210.0	MT	980088.31	980721.50	3.43	-245.91 -1.51	0.00	44.52	-199.48	-179.37	
BUTTE :	B0526	46	7.19	-113	7.71	7410.0	MT	980077.00	980720.39	4.26	-252.73 -1.50	0.00	53.11	-196.87	-176.27	
BUTTE :	B0527	46	5.47	-113	21.93	6115.0	MT	980140.98	980717.60	10.35	-208.56 -1.50	0.00	-1.98	-201.70	-185.24	
BUTTE :	B0528	46	4.97	-113	19.73	6840.0	MT	980100.04	980717.04	10.16	-233.29 -1.52	0.00	25.94	-198.71	-180.19	

26

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0529	46	3.37	-113	18.21	7595.0	MT	980055.44	980714.63	8.40	-259.04	-1.50	0.00	54.69	-197.45	-176.68	
BUTTE :	B0530	46	2.49	-113	19.10	9193.0	MT	979943.78	980713.30	11.47	-313.55	-1.33	0.00	94.46	-208.95	-183.95	
BUTTE :	B0531	46	1.64	-113	19.12	8320.0	MT	979989.81	980712.02	8.75	-283.77	-1.44	0.00	59.78	-216.69	-193.91	
BUTTE :	B0532	46	1.62	-113	20.23	7840.0	MT	980023.90	980711.99	8.42	-267.40	-1.48	0.00	48.80	-211.66	-190.20	
BUTTE :	B0533	46	2.86	-113	21.15	6900.0	MT	980085.16	980713.86	10.97	-235.34	-1.52	0.00	19.89	-206.00	-187.39	
BUTTE :	B0534	46	3.91	-113	21.90	6365.0	MT	980111.89	980715.45	12.64	-217.09	-1.51	0.00	-5.24	-211.20	-194.23	
BUTTE :	B0535	46	20.10	-113	18.58	5137.0	MT	980231.80	980739.84	2.09	-175.21	-1.43	0.00	-25.92	-200.47	-186.09	
BUTTE :	B0536	46	20.33	-113	20.85	5204.0	MT	980226.28	980740.20	1.52	-177.49	-1.43	0.00	-24.69	-202.10	-187.48	
BUTTE :	B0537	46	21.86	-113	22.10	5243.0	MT	980232.74	980742.50	1.74	-178.82	-1.44	0.00	-16.87	-195.40	-180.69	
BUTTE :	B0538	46	22.13	-113	23.78	5506.0	MT	980220.16	980742.91	1.51	-187.79	-1.46	0.00	-5.14	-192.89	-177.42	
BUTTE :	B0539	46	21.18	-113	20.82	5232.0	MT	980225.45	980741.48	1.27	-178.45	-1.44	0.00	-24.17	-202.79	-188.07	
BUTTE :	B0540	46	20.32	-113	19.81	5109.0	MT	980226.60	980740.18	1.76	-174.25	-1.42	0.00	-33.29	-207.20	-192.87	
BUTTE :	B0541	46	21.43	-113	26.18	6047.0	MT	980184.26	980741.85	1.27	-206.25	-1.50	0.00	10.84	-195.63	-178.62	
BUTTE :	B0542	46	20.92	-113	24.09	6249.0	MT	980174.65	980741.09	2.17	-213.14	-1.51	0.00	20.98	-191.49	-173.99	
BUTTE :	B0543	46	20.08	-113	25.72	6797.0	MT	980135.74	980739.82	5.57	-231.83	-1.52	0.00	34.83	-192.95	-174.18	
BUTTE :	B0544	46	17.65	-113	23.39	6611.0	MT	980143.38	980736.16	5.03	-225.48	-1.52	0.00	28.65	-193.31	-175.02	
BUTTE :	B0545	46	18.91	-113	24.06	6587.0	MT	980149.44	980738.05	2.51	-224.66	-1.52	0.00	30.56	-193.11	-174.68	
BUTTE :	B0546	46	18.79	-113	25.55	6524.0	MT	980151.49	980737.88	4.17	-222.52	-1.51	0.00	26.87	-192.99	-174.87	
BUTTE :	B0547	46	18.70	-113	27.36	5951.0	MT	980182.77	980737.73	3.13	-202.97	-1.49	0.00	4.45	-196.89	-180.30	
BUTTE :	B0548	46	19.39	-113	27.75	5360.0	MT	980216.23	980738.78	2.14	-182.81	-1.45	0.00	-18.66	-200.79	-185.78	
BUTTE :	B0549	46	20.97	-113	29.86	5134.0	MT	980233.46	980741.16	1.63	-175.11	-1.43	0.00	-25.06	-199.96	-185.55	
BUTTE :	B0550	46	21.19	-113	28.35	5328.0	MT	980217.82	980741.49	1.87	-181.72	-1.45	0.00	-22.80	-204.10	-189.16	
BUTTE :	B0551	46	12.27	-113	44.06	6620.0	MT	980129.94	980728.05	1.43	-225.79	-1.52	0.00	24.17	-201.71	-183.10	
BUTTE :	B0552	46	7.33	-113	40.93	6740.0	MT	980110.15	980720.60	1.50	-229.88	-1.52	0.00	23.10	-206.80	-187.86	
BUTTE :	B0553	46	6.66	-113	42.95	6980.0	MT	980096.47	980719.59	1.85	-238.07	-1.52	0.00	32.98	-204.76	-185.17	
BUTTE :	B0554	46	6.92	-113	45.35	7886.0	MT	980043.80	980719.98	4.95	-268.97	-1.48	0.00	64.23	-201.27	-179.39	
BUTTE :	B0555	46	4.48	-113	25.72	7180.0	MT	980082.53	980716.30	2.95	-244.89	-1.51	0.00	41.12	-202.33	-182.27	
BUTTE :	B0556	46	3.48	-113	25.90	7816.0	MT	980040.07	980714.80	4.28	-266.56	-1.48	0.00	59.91	-203.87	-182.14	
BUTTE :	B0557	46	3.88	-113	25.06	7390.0	MT	980068.44	980715.40	4.41	-252.05	-1.51	0.00	47.66	-201.49	-180.96	
BUTTE :	B0558	46	7.25	-113	23.43	6485.0	MT	980130.40	980720.48	2.24	-221.18	-1.51	0.00	19.51	-200.95	-182.78	
BUTTE :	B0559	46	6.47	-113	23.78	7010.0	MT	980097.52	980719.30	3.01	-239.09	-1.52	0.00	37.14	-200.46	-180.88	
BUTTE :	B0560	46	0.83	-113	25.14	7515.0	MT	980042.73	980710.80	6.95	-256.31	-1.50	0.00	38.30	-212.57	-191.90	
BUTTE :	B0561	46	2.12	-113	24.30	9140.0	MT	979949.61	980712.74	10.23	-311.74	-1.34	0.00	95.87	-206.98	-182.03	
BUTTE :	B0562	46	0.86	-113	23.76	9808.0	MT	979886.48	980710.84	22.29	-334.52	-1.22	0.00	97.38	-216.07	-190.25	
BUTTE :	B0563	46	0.79	-113	22.29	9036.0	MT	979945.80	980710.73	8.05	-308.19	-1.35	0.00	84.29	-217.20	-192.36	
BUTTE :	B0564	46	0.07	-113	25.60	7640.0	MT	980031.16	980709.65	9.14	-260.58	-1.49	0.00	39.62	-213.32	-192.48	
BUTTE :	B0565	45	59.08	-113	40.96	6565.0	MT	980099.21	980708.16	7.29	-223.91	-1.52	0.00	8.16	-209.98	-192.00	
BUTTE :	B0566	45	59.64	-113	40.16	8468.0	MT	979977.75	980709.00	15.63	-288.82	-1.43	0.00	64.63	-209.98	-187.36	
BUTTE :	B0567	45	59.36	-113	39.54	7990.0	MT	980019.85	980708.58	7.33	-272.52	-1.47	0.00	62.25	-204.40	-182.43	
BUTTE :	victor	46	25.00	-114	8.80	3450.0	MT	980356.65	980747.23	2.29	-117.67	-1.15	0.00	-66.22	-182.74	-173.14	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION		LOCATIONS					GRAVITY		CORRECTIONS			ANOMALIES		
		LATITUDE		LONGITUDE		ELE ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67 d2=2.45	SPEC FIELDS
proj	sta-id	deg	min	deg	min	(in ft)									
BUTTE :	B0568	46	19.18	-113	57.68	5953.0 MT	980186.87	980738.46	6.52	-203.04	-1.49	0.00	8.01	-190.01 -173.69	
BUTTE :	B0569	46	20.08	-113	57.07	6273.0 MT	980173.68	980739.82	4.83	-213.95	-1.51	0.00	23.53	-187.10 -169.75	
BUTTE :	B0570	46	21.00	-113	56.69	6657.0 MT	980148.23	980741.20	9.06	-227.05	-1.52	0.00	32.78	-186.73 -168.64	
BUTTE :	B0571	46	20.47	-113	59.33	5098.0 MT	980247.79	980740.41	3.18	-173.88	-1.42	0.00	-13.36	-185.48 -171.30	
BUTTE :	B0572	46	22.26	-113	59.84	4510.0 MT	980286.39	980743.10	2.60	-153.82	-1.34	0.00	-32.71	-185.28 -172.71	
BUTTE :	B0573	46	21.86	-113	57.85	5370.0 MT	980233.15	980742.50	3.67	-183.16	-1.45	0.00	-4.53	-185.47 -170.56	
BUTTE :	B0574	46	23.71	-113	57.30	6070.0 MT	980194.80	980745.29	5.32	-207.03	-1.50	0.00	20.10	-183.11 -166.36	
BUTTE :	B0575	46	22.68	-113	58.10	5070.0 MT	980252.86	980743.73	3.91	-172.92	-1.42	0.00	-14.25	-184.68 -170.64	
BUTTE :	B0576	46	27.22	-113	59.74	3920.0 MT	980334.29	980750.58	1.87	-133.70	-1.24	0.00	-47.74	-180.82 -169.85	
BUTTE :	B0577	46	26.42	-113	58.82	4150.0 MT	980319.77	980749.38	1.95	-141.54	-1.29	0.00	-39.44	-180.32 -168.71	
BUTTE :	B0578	46	24.65	-113	58.99	4666.0 MT	980285.98	980746.70	2.15	-159.14	-1.37	0.00	-22.06	-180.42 -167.37	
BUTTE :	B0579	46	25.97	-113	57.76	4520.0 MT	980296.79	980748.70	2.30	-154.16	-1.35	0.00	-26.97	-180.18 -167.55	
BUTTE :	B0580	46	28.35	-113	59.04	3968.0 MT	980331.36	980752.28	1.57	-135.34	-1.25	0.00	-47.86	-182.89 -171.76	
BUTTE :	B0581	46	29.62	-113	59.73	3820.0 MT	980346.34	980754.20	1.97	-130.29	-1.23	0.00	-48.70	-178.25 -167.57	
BUTTE :	B0582	46	28.04	-113	56.74	4197.0 MT	980319.21	980751.81	2.40	-143.15	-1.29	0.00	-38.02	-180.06 -168.36	
BUTTE :	B0583	46	26.85	-113	55.17	4414.0 MT	980300.56	980750.02	4.05	-150.55	-1.33	0.00	-34.48	-182.31 -170.13	
BUTTE :	B0584	46	25.64	-113	54.97	4580.0 MT	980288.20	980748.20	4.86	-156.21	-1.36	0.00	-33.42	-186.12 -173.54	
BUTTE :	B0585	46	24.16	-113	54.20	4780.0 MT	980265.69	980745.97	7.21	-163.03	-1.38	0.00	-30.91	-188.11 -175.16	
BUTTE :	B0586	46	22.96	-113	54.77	5095.0 MT	980247.87	980744.16	6.81	-173.78	-1.42	0.00	-17.31	-185.70 -171.83	
BUTTE :	B0587	46	21.80	-113	55.78	5580.0 MT	980216.81	980742.41	4.95	-190.32	-1.47	0.00	-1.05	-187.88 -172.49	
BUTTE :	B0588	46	22.08	-113	52.57	5670.0 MT	980213.03	980742.83	7.83	-193.39	-1.48	0.00	3.21	-183.82 -168.41	
BUTTE :	B0589	46	21.72	-113	52.27	5960.0 MT	980190.94	980742.29	7.04	-203.28	-1.49	0.00	8.91	-188.82 -172.53	
BUTTE :	B0590	46	23.31	-113	52.56	5035.0 MT	980246.17	980744.69	9.07	-171.73	-1.41	0.00	-25.18	-189.25 -175.73	
BUTTE :	B0591	46	26.75	-113	52.92	5300.0 MT	980240.34	980749.87	6.99	-180.77	-1.44	0.00	-11.29	-186.51 -172.07	
BUTTE :	B0592	46	27.11	-113	51.01	4765.0 MT	980157.35	980750.41	7.74	-230.73	-1.52	0.00	42.83	-181.68 -163.18	
BUTTE :	B0593	46	28.11	-113	49.68	6200.0 MT	980188.53	980751.92	6.56	-211.46	-1.51	0.00	19.42	-186.99 -169.98	
BUTTE :	B0594	46	29.69	-113	48.48	6076.0 MT	980198.18	980754.30	6.33	-207.23	-1.50	0.00	15.83	-187.37 -170.69	
BUTTE :	B0595	46	29.33	-113	49.66	6341.0 MT	980184.61	980753.76	5.52	-216.27	-1.51	0.00	26.91	-185.36 -167.87	
BUTTE :	B0596	46	29.36	-113	51.62	7154.0 MT	980133.35	980753.80	11.02	-244.00	-1.51	0.00	51.99	-182.51 -163.19	
BUTTE :	B0597	46	28.75	-113	53.86	6151.0 MT	980199.09	980752.68	8.00	-209.79	-1.50	0.00	24.41	-178.88 -162.13	
BUTTE :	B0598	46	34.93	-113	50.14	6738.0 MT	980175.86	980762.20	8.42	-229.81	-1.52	0.00	46.62	-176.29 -157.92	
BUTTE :	B0599	46	35.64	-113	48.52	7044.0 MT	980157.22	980763.27	8.48	-240.25	-1.52	0.00	56.06	-177.23 -158.01	
BUTTE :	B0600	46	34.23	-113	50.92	6349.0 MT	980194.81	980761.14	7.59	-216.55	-1.51	0.00	30.48	-179.99 -162.65	
BUTTE :	B0601	46	25.03	-113	51.83	7268.0 MT	980117.76	980747.28	10.69	-247.89	-1.51	0.00	53.63	-185.08 -165.41	
BUTTE :	B0602	46	24.61	-113	49.51	8027.0 MT	980063.76	980746.64	14.94	-273.78	-1.47	0.00	71.56	-188.74 -167.29	
BUTTE :	B0603	46	24.58	-113	47.65	7279.0 MT	980113.56	980746.60	7.75	-248.27	-1.51	0.00	51.15	-190.88 -170.94	
BUTTE :	B0604	46	23.27	-113	48.43	8122.0 MT	980052.88	980744.63	14.78	-277.02	-1.46	0.00	71.63	-192.06 -170.34	
BUTTE :	B0605	46	22.31	-113	47.18	7560.0 MT	980093.57	980743.18	5.41	-257.85	-1.50	0.00	60.97	-192.96 -172.04	
BUTTE :	B0606	46	22.75	-113	50.50	5280.0 MT	980225.11	980743.84	11.18	-188.09	-1.44	0.00	-22.37	-192.72 -178.68	
BUTTE :	B0607	46	29.42	-113	56.61	4590.0 MT	980299.28	980753.89	2.22	-156.55	-1.36	0.00	-23.10	-178.79 -165.96	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0608	46	32.72	-113	59.41	3622.0	MT	980355.53	980758.87	1.43	-123.58 -1.19	0.00	-62.80	-186.09	-175.93	
BUTTE :	B0609	46	33.52	-113	59.52	3489.0	MT	980367.31	980760.07	1.82	-119.00 -1.16	0.00	-64.72	-183.06	-173.31	
BUTTE :	B0610	46	34.40	-113	58.92	3558.0	MT	980363.04	980761.40	1.52	-121.35 -1.17	0.00	-63.84	-184.84	-174.87	
BUTTE :	B0612	46	35.30	-113	58.91	3692.0	MT	980355.77	980762.75	1.27	-125.92 -1.20	0.00	-59.87	-185.72	-175.35	
BUTTE :	B0613	46	35.47	-113	57.24	3776.0	MT	980356.39	980763.01	1.49	-128.79 -1.22	0.00	-51.61	-180.13	-169.54	
BUTTE :	B0614	46	32.08	-113	56.57	4141.0	MT	980329.02	980757.90	2.54	-141.24 -1.29	0.00	-39.56	-179.54	-168.01	
BUTTE :	B0615	46	33.53	-113	57.63	3783.0	MT	980352.76	980760.09	1.57	-129.03 -1.22	0.00	-51.66	-180.34	-169.73	
BUTTE :	B0616	46	33.57	-113	56.70	3985.0	MT	980340.42	980760.15	1.83	-135.92 -1.26	0.00	-45.07	-180.41	-169.26	
BUTTE :	B0617	46	32.22	-113	53.49	4663.0	MT	980287.70	980758.11	3.27	-165.86 -1.39	0.00	-13.24	-177.23	-163.71	
BUTTE :	B0618	46	33.52	-113	52.73	4954.0	MT	980282.46	980760.07	2.84	-168.97 -1.41	0.00	-11.89	-179.42	-165.61	
BUTTE :	B0619	46	37.89	-113	58.91	3858.0	MT	980355.20	980766.64	1.40	-131.59 -1.23	0.00	-48.73	-180.15	-169.32	
BUTTE :	B0620	46	38.56	-113	59.57	3589.0	MT	980375.72	980767.66	1.57	-122.41 -1.18	0.00	-54.51	-176.53	-166.48	
BUTTE :	B0621	46	38.25	-113	56.82	4090.0	MT	980349.38	980767.20	1.52	-139.50 -1.24	0.00	-33.29	-172.55	-161.07	
BUTTE :	B0622	46	38.79	-113	58.25	3715.0	MT	980370.69	980768.01	1.99	-126.71 -1.20	0.00	-48.05	-173.97	-163.59	
BUTTE :	B0623	46	39.09	-113	56.05	3970.0	MT	980359.37	980768.46	3.23	-135.41 -1.25	0.00	-35.85	-169.28	-158.29	
BUTTE :	B0624	46	39.10	-113	53.31	4280.0	MT	980335.30	980768.48	6.20	-145.98 -1.31	0.00	-30.80	-171.89	-160.26	
BUTTE :	B0625	46	38.63	-113	51.84	5089.0	MT	980286.15	980767.77	6.69	-173.57 -1.42	0.00	-3.21	-171.51	-157.65	
BUTTE :	B0626	46	36.22	-113	54.46	4391.0	MT	980328.95	980764.18	2.21	-149.76 -1.33	0.00	-26.37	-175.25	-162.99	
BUTTE :	B0627	46	37.30	-113	54.81	4200.0	MT	980337.87	980765.77	2.74	-143.25 -1.30	0.00	-33.44	-175.24	-163.56	
BUTTE :	B0628	46	36.16	-113	51.02	5110.0	MT	980280.62	980764.05	4.59	-174.29 -1.42	0.00	-3.05	-174.17	-160.07	
BUTTE :	B0373	46	36.80	-113	48.32	6790.0	MT	980179.38	980765.02	5.21	-231.59 -1.52	0.00	52.61	-175.29	-156.51	
BUTTE :	B0629	46	40.60	-113	59.57	3999.0	MT	980363.71	980770.73	2.14	-136.39 -1.26	0.00	-31.06	-166.57	-155.40	
BUTTE :	B0630	46	42.47	-113	58.80	6015.0	MT	980235.01	980773.55	13.96	-205.15 -1.50	0.00	26.88	-165.82	-149.94	
BUTTE :	B0631	46	39.64	-113	57.66	4186.0	MT	980348.76	980769.29	1.54	-142.77 -1.29	0.00	-26.99	-169.51	-157.77	
BUTTE :	B0632	46	40.60	-113	56.69	4400.0	MT	980338.19	980770.73	2.90	-150.07 -1.33	0.00	-18.89	-167.39	-155.16	
BUTTE :	B0633	46	40.97	-113	50.75	6767.0	MT	980185.98	980771.38	12.45	-230.80 -1.52	0.00	50.77	-169.10	-150.99	
BUTTE :	B0634	46	49.61	-113	59.90	3665.0	MT	980402.47	980784.30	2.68	-125.00 -1.19	0.00	-37.26	-160.78	-150.60	
BUTTE :	B0635	46	41.68	-113	53.41	4870.0	MT	980311.00	980772.36	5.87	-166.10 -1.39	0.00	-3.53	-165.16	-151.84	
BUTTE :	B0636	46	56.49	-113	59.12	4000.0	MT	980399.59	980794.66	2.77	-136.43 -1.26	0.00	-19.01	-153.93	-142.81	
BUTTE :	B0637	46	54.06	-113	59.97	3420.0	MT	980424.17	980791.01	1.68	-116.65 -1.14	0.00	-45.29	-161.40	-151.83	
BUTTE :	B0638	46	54.91	-113	52.07	5590.0	MT	980293.77	980792.29	10.07	-190.66 -1.47	0.00	26.97	-155.09	-140.89	
BUTTE :	B0639	46	56.47	-113	39.99	3620.0	MT	980419.00	980794.63	3.09	-123.47 -1.19	0.00	-35.29	-156.85	-146.84	
BUTTE :	B0640	46	57.30	-113	39.77	4490.0	MT	980371.20	980795.88	2.89	-153.14 -1.34	0.00	-2.57	-154.16	-141.67	
BUTTE :	B0641	46	59.34	-113	39.30	4447.0	MT	980374.60	980798.95	1.95	-151.67 -1.34	0.00	-4.28	-155.34	-142.90	
BUTTE :	B0642	46	58.83	-113	37.66	4978.0	MT	980348.89	980798.19	1.59	-169.78 -1.41	0.00	14.67	-154.93	-140.95	
BUTTE :	B0643	46	59.39	-113	36.21	4760.0	MT	980359.18	980799.03	3.65	-162.35 -1.38	0.00	7.64	-152.45	-139.25	
BUTTE :	B0644	46	58.97	-113	34.25	4696.0	MT	980361.40	980798.40	1.85	-160.17 -1.37	0.00	4.47	-155.22	-142.06	
BUTTE :	B0645	46	57.72	-113	35.43	4299.0	MT	980382.93	980796.52	1.99	-146.63 -1.31	0.00	-9.42	-155.37	-143.35	
BUTTE :	B0646	46	56.57	-113	36.01	3537.0	MT	980424.72	980794.79	4.07	-120.64 -1.17	0.00	-37.52	-155.26	-145.56	
BUTTE :	B0647	46	56.47	-113	37.87	3595.0	MT	980421.40	980794.63	2.44	-122.62 -1.18	0.00	-35.24	-156.60	-146.60	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE	ekat	46	42.96	-113	40.05	3580.0	MT	980386.15	980774.29	4.87	-122.10	-1.18	0.00	-51.56	-169.97	-160.21	
BUTTE	B0648	46	57.19	-113	32.41	3603.0	MT	980422.55	980795.72	2.25	-122.89	-1.18	0.00	-34.43	-156.25	-146.21	
BUTTE	B0649	46	58.76	-113	33.03	4350.0	MT	980381.45	980798.09	1.87	-148.37	-1.32	0.00	-7.68	-155.49	-143.31	
BUTTE	B0650	46	56.98	-113	30.38	3643.0	MT	980419.74	980795.41	1.71	-124.25	-1.19	0.00	-33.15	-156.89	-146.69	
BUTTE	B0651	46	58.01	-113	29.58	4096.0	MT	980395.02	980796.95	2.05	-139.70	-1.28	0.00	-16.85	-155.78	-144.33	
BUTTE	B0652	46	58.98	-113	30.53	4864.0	MT	980348.81	980798.41	3.34	-165.90	-1.39	0.00	7.66	-156.29	-142.78	
BUTTE	B0653	46	56.75	-113	27.97	3725.0	MT	980412.83	980795.05	1.03	-127.05	-1.21	0.00	-32.02	-159.24	-148.76	
BUTTE	B0654	46	56.49	-113	25.94	3720.0	MT	980411.59	980794.66	0.91	-126.88	-1.21	0.00	-33.33	-160.50	-150.02	
BUTTE	B0655	46	58.28	-113	24.49	3872.0	MT	980405.80	980797.36	1.41	-132.06	-1.24	0.00	-27.53	-159.42	-148.55	
BUTTE	B0656	46	58.98	-113	25.58	4050.0	MT	980395.84	980798.35	1.79	-138.13	-1.27	0.00	-21.75	-159.36	-148.02	
BUTTE	B0657	46	59.71	-113	23.34	3822.0	MT	980407.79	980799.52	1.09	-130.36	-1.23	0.00	-32.39	-162.89	-152.13	
BUTTE	B0658	46	57.96	-113	22.62	3774.0	MT	980410.35	980796.88	1.17	-128.72	-1.22	0.00	-31.71	-160.48	-149.87	
BUTTE	B0659	46	56.98	-113	22.65	3753.0	MT	980406.80	980795.41	1.34	-128.00	-1.21	0.00	-35.76	-163.64	-153.10	
BUTTE	B0660	46	55.75	-113	23.75	3964.0	MT	980393.51	980793.55	1.08	-135.20	-1.25	0.00	-27.37	-162.74	-151.59	
BUTTE	B0661	46	54.68	-113	24.43	3756.0	MT	980400.48	980791.94	1.47	-128.11	-1.21	0.00	-38.33	-166.18	-155.64	
BUTTE	B0662	46	54.66	-113	26.24	3813.0	MT	980401.21	980791.91	1.26	-130.05	-1.22	0.00	-32.22	-162.23	-151.52	
BUTTE	B0663	46	53.49	-113	36.97	3536.0	MT	980409.03	980790.15	1.88	-120.60	-1.17	0.00	-48.67	-168.56	-158.68	
BUTTE	B0664	46	53.18	-113	38.75	3621.0	MT	980403.66	980789.69	1.38	-123.50	-1.19	0.00	-45.58	-168.89	-158.73	
BUTTE	B0665	46	54.94	-113	35.32	5130.0	MT	980325.83	980792.33	4.49	-174.97	-1.43	0.00	15.35	-156.55	-142.39	
BUTTE	B0666	46	52.63	-113	32.76	3757.0	MT	980399.02	980788.85	0.93	-128.14	-1.21	0.00	-36.61	-165.03	-154.45	
BUTTE	B0667	46	53.62	-113	31.78	4060.0	MT	980391.66	980790.34	1.23	-138.48	-1.27	0.00	-16.98	-155.50	-144.08	
BUTTE	B0668	46	54.23	-113	31.50	4175.0	MT	980387.46	980791.27	1.35	-140.69	-1.28	0.00	-15.99	-156.62	-145.03	
BUTTE	B0669	46	55.52	-113	32.40	5045.0	MT	980332.77	980793.20	4.08	-172.75	-1.42	0.00	15.72	-154.37	-140.36	
BUTTE	B0670	46	55.11	-113	30.85	4742.0	MT	980352.24	980792.59	2.34	-161.74	-1.38	0.00	5.45	-155.32	-142.08	
BUTTE	B0671	46	52.95	-113	29.53	4045.0	MT	980388.46	980789.34	1.09	-137.96	-1.27	0.00	-20.58	-158.73	-147.34	
BUTTE	B0672	46	53.35	-113	27.60	4155.0	MT	980380.99	980789.98	0.79	-141.71	-1.29	0.00	-18.32	-160.53	-148.81	
BUTTE	B0673	46	55.37	-113	27.13	3800.0	MT	980405.40	980792.98	1.16	-129.61	-1.22	0.00	-30.32	-159.99	-149.30	
BUTTE	B0674	46	53.63	-113	23.14	3870.0	MT	980394.26	980790.36	2.79	-132.00	-1.24	0.00	-32.26	-162.70	-151.95	
BUTTE	B0675	46	53.33	-113	20.68	4980.0	MT	980327.37	980789.91	2.71	-169.85	-1.41	0.00	5.62	-162.93	-149.04	
BUTTE	B0676	46	53.47	-113	18.48	6011.0	MT	980261.90	980790.12	6.74	-205.02	-1.50	0.00	36.82	-162.95	-146.49	
BUTTE	B0677	46	53.79	-113	19.48	5966.0	MT	980264.89	980790.60	8.25	-203.48	-1.49	0.00	34.71	-162.02	-145.81	
BUTTE	B0678	46	54.24	-113	18.02	6260.0	MT	980253.24	980791.28	4.31	-213.51	-1.51	0.00	50.40	-160.30	-142.94	
BUTTE	B0679	46	53.41	-113	16.89	6105.0	MT	980255.98	980790.03	2.58	-208.22	-1.50	0.00	39.83	-167.31	-150.25	
BUTTE	B0680	46	53.79	-113	15.61	6344.0	MT	980241.10	980790.60	3.99	-216.38	-1.51	0.00	46.83	-167.06	-149.44	
BUTTE	B0681	46	54.70	-113	15.13	6810.0	MT	980216.72	980791.97	7.05	-232.27	-1.52	0.00	64.86	-161.87	-143.19	
BUTTE	B0682	46	46.27	-113	47.33	3960.0	MT	980365.88	980779.27	12.55	-135.06	-1.25	0.00	-41.09	-164.86	-154.66	
BUTTE	B0683	46	46.19	-113	49.45	6024.0	MT	980245.15	980779.16	14.12	-205.46	-1.50	0.00	32.26	-160.58	-144.69	
BUTTE	B0684	46	55.09	-113	22.47	4234.0	MT	980374.20	980792.55	2.53	-144.41	-1.30	0.00	-20.30	-163.48	-151.69	
BUTTE	B0685	46	59.95	-113	14.44	8025.0	MT	980398.92	980799.88	2.16	-137.28	-1.26	0.00	-22.54	-158.93	-147.69	
BUTTE	B0686	46	56.60	-113	16.33	5282.0	MT	980319.29	980794.83	3.05	-180.15	-1.44	0.00	21.00	-157.55	-142.83	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION		LOCATIONS					GRAVITY		CORRECTIONS				ANOMALIES		
		LATITUDE		LONGITUDE		ELE ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
proj	sta-id	deg	min	deg	min	(in ft)										
BUTTE :	B0687	46	58.69	-113	16.89	4415.0 MT	980375.69	980797.98	2.74	-150.58	-1.33	0.00	-7.23	-156.40	-144.11	
BUTTE :	B0688	46	58.21	-113	18.58	4298.0 MT	980379.34	980797.26	2.86	-146.59	-1.31	0.00	-13.84	-158.89	-146.94	
BUTTE :	B0689	46	59.69	-113	19.26	3830.0 MT	980407.43	980799.48	4.44	-130.63	-1.23	0.00	-31.97	-159.39	-148.89	
BUTTE :	B0690	46	51.77	-113	33.81	3692.0 MT	980395.14	980787.55	1.11	-125.92	-1.20	0.00	-45.31	-171.32	-160.94	
BUTTE :	B0691	46	51.31	-113	32.70	3805.0 MT	980391.56	980786.87	0.98	-129.78	-1.22	0.00	-37.57	-167.59	-156.88	
BUTTE :	B0692	46	50.09	-113	30.77	4140.0 MT	980379.00	980785.03	1.33	-141.20	-1.28	0.00	-16.81	-157.97	-146.34	
BUTTE :	B0693	46	48.78	-113	30.86	4280.0 MT	980361.38	980783.05	3.69	-145.98	-1.31	0.00	-19.30	-162.89	-151.06	
BUTTE :	B0694	46	45.51	-113	30.61	6084.0 MT	980242.18	980778.13	10.68	-207.51	-1.50	0.00	35.95	-162.38	-146.03	
BUTTE :	B0695	46	46.69	-113	28.31	5690.0 MT	980273.97	980779.91	4.23	-194.07	-1.48	0.00	28.94	-162.37	-146.61	
BUTTE :	B0696	46	47.30	-113	26.22	5557.0 MT	980283.24	980780.83	1.38	-189.53	-1.47	0.00	24.80	-164.82	-149.20	
BUTTE :	B0697	46	46.30	-113	24.21	4800.0 MT	980322.98	980779.32	3.56	-163.71	-1.39	0.00	-5.09	-166.63	-153.32	
BUTTE :	B0698	46	45.22	-113	20.96	4124.0 MT	980360.37	980777.70	4.79	-140.66	-1.28	0.00	-29.61	-166.76	-155.46	
BUTTE :	B0699	46	44.63	-113	20.88	4014.0 MT	980366.52	980776.80	5.92	-136.91	-1.26	0.00	-32.90	-165.15	-154.26	
BUTTE :	B0700	46	42.82	-113	19.76	3840.0 MT	980375.94	980774.08	2.33	-130.97	-1.23	0.00	-37.12	-166.99	-156.29	
BUTTE :	B0701	46	46.95	-113	20.70	4479.0 MT	980343.53	980780.30	5.82	-152.77	-1.34	0.00	-15.69	-163.98	-151.76	
BUTTE :	B0702	46	48.26	-113	21.00	4782.0 MT	980327.79	980782.27	5.77	-163.10	-1.38	0.00	-4.93	-163.64	-150.57	
BUTTE :	B0703	46	49.65	-113	20.87	6082.0 MT	980259.04	980784.37	3.11	-207.44	-1.50	0.00	46.39	-159.44	-142.48	
BUTTE :	B0704	46	49.92	-113	23.19	6016.0 MT	980268.06	980784.77	2.71	-205.19	-1.50	0.00	44.80	-159.17	-142.36	
BUTTE :	B0705	46	49.64	-113	25.21	6445.0 MT	980232.67	980784.35	8.73	-219.82	-1.51	0.00	54.14	-158.46	-140.94	
BUTTE :	B0706	46	48.47	-113	23.88	6810.0 MT	980196.23	980782.59	15.34	-232.27	-1.52	0.00	53.76	-164.69	-146.69	
BUTTE :	B0707	46	48.20	-113	24.82	6248.0 MT	980242.98	980782.18	4.96	-213.10	-1.51	0.00	48.11	-161.53	-144.26	
BUTTE :	B0708	46	48.37	-113	27.99	5405.0 MT	980297.18	980782.44	1.62	-184.35	-1.45	0.00	22.84	-161.34	-146.17	
BUTTE :	B0709	46	49.50	-113	28.05	4390.0 MT	980359.23	980784.14	3.01	-149.73	-1.33	0.00	-12.19	-160.24	-148.04	
BUTTE :	B0710	46	47.87	-113	36.16	6118.0 MT	980240.99	980781.69	9.59	-208.67	-1.50	0.00	34.41	-166.17	-149.65	
BUTTE :	B0711	46	43.30	-113	33.49	3636.0 MT	980381.54	980774.80	4.23	-124.01	-1.19	0.00	-51.42	-172.39	-162.42	
BUTTE :	B0712	46	43.17	-113	34.55	3590.0 MT	980382.44	980774.61	4.37	-122.44	-1.18	0.00	-54.24	-173.49	-163.67	
BUTTE :	B0713	46	43.38	-113	36.36	3550.0 MT	980385.18	980774.92	6.80	-121.08	-1.17	0.00	-55.98	-171.43	-161.92	
BUTTE :	B0714	46	43.89	-113	35.06	3660.0 MT	980380.59	980775.70	4.71	-124.83	-1.19	0.00	-56.99	-172.31	-162.31	
BUTTE :	B0715	46	44.76	-113	45.00	3655.0 MT	980382.89	980777.00	10.29	-124.66	-1.19	0.00	-50.48	-166.04	-156.52	
BUTTE :	B0716	46	44.14	-113	47.00	6169.0 MT	980229.47	980776.07	15.14	-210.41	-1.50	0.00	33.29	-163.48	-147.27	
BUTTE :	B0716A	46	51.50	-113	30.61	3945.0 MT	980393.96	980787.15	1.18	-134.55	-1.25	0.00	-22.30	-156.92	-145.83	
BUTTE :	B0717	46	50.86	-113	29.49	4130.0 MT	980384.98	980786.19	1.08	-140.86	-1.28	0.00	-12.93	-153.99	-142.37	
BUTTE :	B0718	46	52.10	-113	25.45	5380.0 MT	980299.00	980788.05	4.17	-183.50	-1.45	0.00	16.69	-164.08	-149.19	
BUTTE :	B0719	46	51.15	-113	23.70	5774.0 MT	980277.74	980786.63	4.22	-196.94	-1.48	0.00	33.89	-160.30	-144.30	
BUTTE :	B0720	46	50.24	-113	18.73	4900.0 MT	980327.09	980785.26	3.27	-167.12	-1.40	0.00	2.48	-162.77	-149.15	
BUTTE :	B0721	46	51.85	-113	20.11	4555.0 MT	980349.18	980787.68	2.36	-155.36	-1.35	0.00	-10.28	-164.63	-151.91	
BUTTE :	B0722	46	51.28	-113	17.55	5250.0 MT	980305.08	980786.82	2.76	-179.06	-1.44	0.00	11.79	-165.95	-151.30	
BUTTE :	B0723	46	52.31	-113	15.62	6565.0 MT	980230.41	980788.38	4.58	-223.91	-1.52	0.00	59.14	-161.71	-143.51	
BUTTE :	B0724	46	51.08	-113	15.54	7060.0 MT	980189.25	980786.52	11.40	-240.80	-1.51	0.00	66.33	-164.58	-145.55	
BUTTE :	B0725	46	49.06	-113	16.26	6525.0 MT	980226.24	980783.48	6.61	-222.55	-1.51	0.00	56.10	-161.35	-143.43	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 08/06/81

STATION IDENTIFICATION		LOCATIONS					GRAVITY		CORRECTIONS				ANOMALIES		
		LATITUDE		LONGITUDE		ELE ST	OBSERVED	THEORETICAL	TERRAIN	BOUGUER	CURV	SPECIAL	FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
proj	sta-id	deg	min	deg	min	(in ft)										
BUTTE :	B0730	46	44.15	-113	16.72	4125.0 MT	980357.58	980776.09	6.59	-140.69	-1.28	0.00	-30.70	-166.08	-154.92	
BUTTE :	B0726	46	47.79	-113	18.43	5001.0 MT	980312.74	980781.56	6.95	-170.57	-1.41	0.00	1.31	-163.72	-150.12	
BUTTE :	B0727	46	47.08	-113	15.49	5986.0 MT	980256.40	980780.49	1.73	-204.16	-1.50	0.00	38.60	-165.33	-148.53	
BUTTE :	B0728	46	45.24	-113	15.91	4800.0 MT	980320.15	980777.73	7.43	-163.71	-1.39	0.00	-6.33	-164.00	-151.01	
BUTTE :	B0729	46	46.07	-113	17.27	5330.0 MT	980291.51	980778.98	6.16	-181.79	-1.45	0.00	13.59	-163.49	-148.90	
BUTTE :	B0731	46	43.27	-113	17.66	3825.0 MT	980376.22	980774.76	3.98	-130.46	-1.23	0.00	-38.93	-166.63	-156.11	
BUTTE :	B0732	46	43.77	-113	38.77	3560.0 MT	980386.85	980775.51	4.77	-121.42	-1.17	0.00	-53.95	-171.78	-162.07	
BUTTE :	B0733	46	44.82	-113	37.34	5854.0 MT	980244.75	980777.09	13.86	-199.66	-1.49	0.00	17.95	-169.34	-153.91	
BUTTE :	B0734	46	41.46	-113	34.06	5739.0 MT	980244.96	980772.03	7.93	-195.74	-1.48	0.00	12.42	-176.87	-161.28	
BUTTE :	B0735	46	39.86	-113	32.42	6075.0 MT	980227.80	980769.63	5.83	-207.20	-1.50	0.00	28.84	-174.03	-157.32	
BUTTE :	B0736	46	38.45	-113	35.04	6634.0 MT	980184.17	980767.50	15.22	-226.27	-1.52	0.00	40.26	-172.31	-154.79	
BUTTE :	B0737	46	38.79	-113	31.18	6531.0 MT	980195.53	980768.01	8.17	-222.75	-1.51	0.00	41.43	-174.67	-156.87	
BUTTE :	B0738	46	39.14	-113	42.70	6760.0 MT	980182.32	980768.54	14.38	-230.56	-1.52	0.00	49.20	-168.50	-150.56	
BUTTE :	B0739	46	40.80	-113	41.30	3760.0 MT	980365.05	980771.04	9.77	-128.24	-1.21	0.00	-52.49	-172.17	-162.31	
BUTTE :	B0740	46	41.02	-113	43.58	4010.0 MT	980352.82	980771.37	8.95	-136.77	-1.26	0.00	-41.55	-170.63	-159.99	
BUTTE :	B0741	46	39.72	-113	44.00	4440.0 MT	980320.54	980769.41	11.45	-151.44	-1.33	0.00	-31.46	-172.78	-161.13	
BUTTE :	B0742	46	37.07	-113	36.33	4126.0 MT	980330.15	980765.42	11.59	-140.73	-1.28	0.00	-47.37	-177.78	-167.04	
BUTTE :	B0743	46	36.01	-113	34.96	5080.0 MT	980268.79	980763.82	8.37	-173.26	-1.42	0.00	-17.47	-183.70	-170.08	
BUTTE :	B0744	46	35.37	-113	33.35	7820.0 MT	980098.85	980762.86	19.34	-266.72	-1.48	0.00	71.00	-177.86	-157.36	
BUTTE :	B0745	46	35.37	-113	35.98	6094.0 MT	980212.92	980762.86	6.91	-207.85	-1.50	0.00	22.91	-179.53	-162.85	
BUTTE :	B0746	46	42.95	-113	31.78	3648.0 MT	980380.06	980774.27	5.42	-124.42	-1.19	0.00	-51.24	-171.43	-161.53	
BUTTE :	B0747	46	41.83	-113	29.00	3702.0 MT	980374.89	980772.59	5.92	-126.26	-1.20	0.00	-49.65	-171.19	-161.18	
BUTTE :	B0748	46	43.29	-113	28.18	4275.0 MT	980346.01	980774.79	8.16	-145.81	-1.31	0.00	-26.87	-165.83	-154.38	
BUTTE :	B0749	46	44.21	-113	27.48	4820.0 MT	980315.83	980776.17	8.36	-164.40	-1.39	0.00	-7.22	-164.64	-151.67	
BUTTE :	B0750	46	43.71	-113	30.61	4300.0 MT	980345.57	980775.42	6.18	-146.66	-1.31	0.00	-25.59	-167.39	-155.70	
BUTTE :	B0751	46	44.94	-113	29.02	5650.0 MT	980271.08	980777.27	4.58	-192.71	-1.47	0.00	24.93	-164.67	-149.05	
BUTTE :	B0752	46	42.16	-113	23.94	3747.0 MT	980376.30	980773.09	4.54	-127.80	-1.21	0.00	-44.51	-168.98	-158.72	
BUTTE :	B0753	46	42.66	-113	25.58	5322.0 MT	980282.99	980773.84	9.34	-181.52	-1.45	0.00	9.46	-164.17	-149.86	
BUTTE :	B0754	46	43.73	-113	26.60	6150.0 MT	980239.59	980775.45	8.00	-209.76	-1.50	0.00	42.25	-161.01	-144.26	
BUTTE :	B0755	46	44.56	-113	26.19	6175.0 MT	980241.87	980776.70	6.35	-210.61	-1.50	0.00	45.62	-160.14	-143.19	
BUTTE :	B0756	46	43.83	-113	25.12	6314.0 MT	980226.27	980775.60	7.81	-215.35	-1.51	0.00	44.19	-164.86	-147.64	
BUTTE :	B0757	46	43.94	-113	22.99	4820.0 MT	980321.37	980775.77	2.35	-164.40	-1.39	0.00	-1.27	-164.71	-151.24	
BUTTE :	B0758	46	42.90	-113	22.99	3990.0 MT	980363.49	980774.20	4.84	-136.09	-1.26	0.00	-35.59	-168.09	-157.17	
BUTTE :	B0759	46	42.11	-113	24.13	3730.0 MT	980375.49	980773.01	6.29	-127.22	-1.21	0.00	-46.84	-168.97	-158.91	
BUTTE :	B0760	46	40.53	-113	27.17	4230.0 MT	980340.03	980770.63	5.62	-144.27	-1.30	0.00	-32.92	-172.87	-161.34	
BUTTE :	B0761	46	39.84	-113	26.15	6073.0 MT	980230.54	980769.59	9.50	-207.13	-1.50	0.00	31.82	-167.31	-150.90	
BUTTE :	B0762	46	40.37	-113	24.47	4860.0 MT	980309.14	980770.39	2.86	-165.76	-1.39	0.00	-4.36	-168.66	-155.12	
BUTTE :	B0763	46	41.88	-113	20.70	3784.0 MT	980371.22	980772.66	3.21	-129.06	-1.22	0.00	-45.69	-172.76	-162.29	
BUTTE :	B0764	46	41.91	-113	21.80	3780.0 MT	980375.45	980772.71	2.77	-128.92	-1.22	0.00	-41.87	-169.25	-158.75	
BUTTE :	B0765	46	41.68	-113	22.40	3835.0 MT	980370.64	980772.36	4.06	-130.80	-1.23	0.00	-41.17	-169.14	-158.59	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0766	46	41.09	-113	22.99	3970.0	MT	980360.31	980771.48	3.73	-135.41	-1.25	0.00	-37.92	-170.85	-159.90	
BUTTE :	B0767	46	39.42	-113	24.34	4230.0	MT	980339.91	980768.96	8.18	-144.27	-1.30	0.00	-31.37	-168.76	-157.44	
BUTTE :	B0768	46	40.56	-113	23.63	4060.0	MT	980353.80	980770.68	5.08	-138.48	-1.27	0.00	-35.18	-169.84	-158.75	
BUTTE :	B0769	46	42.35	-113	19.76	3830.0	MT	980371.81	980773.38	2.32	-130.63	-1.23	0.00	-41.48	-171.02	-160.34	
BUTTE :	B0770	46	40.37	-113	15.53	4750.0	MT	980317.96	980770.39	0.82	-162.01	-1.38	0.00	-5.88	-168.45	-155.05	
BUTTE :	B0771	46	40.83	-113	16.78	4167.0	MT	980348.74	980771.09	1.79	-142.12	-1.29	0.00	-30.58	-172.21	-160.54	
BUTTE :	B0772	46	41.24	-113	17.81	3990.0	MT	980357.87	980771.70	1.68	-136.09	-1.26	0.00	-38.71	-174.38	-163.20	
BUTTE :	B0773	46	42.19	-113	22.23	3780.0	MT	980375.58	980773.13	2.89	-128.92	-1.22	0.00	-42.17	-169.42	-158.94	
BUTTE :	B0774	46	41.68	-113	24.43	3730.0	MT	980375.62	980772.36	4.95	-127.22	-1.21	0.00	-46.06	-169.54	-159.37	
BUTTE :	B0775	46	34.46	-113	39.44	4060.0	MT	980324.43	980761.48	10.43	-138.48	-1.27	0.00	-55.35	-184.67	-174.01	
BUTTE :	B0776	46	33.44	-113	38.29	4260.0	MT	980304.58	980759.95	15.25	-145.30	-1.31	0.00	-54.87	-186.22	-175.40	
BUTTE :	B0777	46	32.37	-113	37.84	4440.0	MT	980289.21	980758.34	15.41	-151.44	-1.33	0.00	-51.71	-189.07	-177.75	
BUTTE :	B0778	46	31.39	-113	37.20	4620.0	MT	980277.17	980756.86	10.79	-157.58	-1.36	0.00	-45.35	-193.50	-181.29	
BUTTE :	B0779	46	30.59	-113	36.83	4840.0	MT	980262.61	980755.66	10.37	-165.08	-1.39	0.00	-38.04	-194.14	-181.27	
BUTTE :	B0780	46	30.79	-113	48.95	4460.0	MT	980288.44	980755.95	12.48	-152.12	-1.34	0.00	-48.22	-189.20	-177.58	
BUTTE :	B07A1	46	37.41	-113	34.93	4300.0	MT	980321.44	980765.93	10.42	-146.66	-1.31	0.00	-40.24	-177.79	-166.45	
BUTTE :	B07A2	46	34.83	-113	34.75	7080.0	MT	980149.24	980762.05	7.48	-241.48	-1.51	0.00	52.68	-182.83	-163.42	
BUTTE :	B07A3	46	35.70	-113	31.65	7051.0	MT	980157.00	980763.35	10.89	-240.49	-1.51	0.00	56.40	-174.71	-155.67	
BUTTE :	B07A4	46	35.92	-113	30.71	6961.0	MT	980162.95	980763.69	10.36	-237.42	-1.52	0.00	53.57	-175.00	-156.17	
BUTTE :	B07A5	46	34.15	-113	34.56	7050.0	MT	980145.02	980761.02	7.93	-240.46	-1.51	0.00	46.67	-187.37	-168.08	
BUTTE :	B07A6	46	32.92	-113	35.00	7344.0	MT	980123.17	980759.16	13.49	-250.48	-1.51	0.00	54.29	-184.21	-164.56	
BUTTE :	B07A7	46	32.43	-113	34.05	7054.0	MT	980145.63	980758.43	5.40	-240.59	-1.51	0.00	50.25	-186.46	-166.95	
BUTTE :	B07A8	46	31.90	-113	33.31	6692.0	MT	980166.24	980757.63	2.56	-228.24	-1.52	0.00	37.65	-189.56	-170.84	
BUTTE :	B07A9	46	30.59	-113	34.40	7430.0	MT	980107.00	980755.66	7.87	-253.42	-1.50	0.00	49.71	-197.34	-176.98	
BUTTE :	B0790	46	30.39	-113	35.52	7078.0	MT	980128.01	980755.35	13.37	-241.41	-1.51	0.00	37.95	-191.60	-172.69	
BUTTE :	B0791	46	30.93	-113	30.48	5799.0	MT	980214.15	980756.16	2.61	-197.45	-1.48	0.00	2.17	-194.15	-177.97	
BUTTE :	B0792	46	29.61	-113	29.69	5745.0	MT	980213.20	980754.18	2.84	-195.95	-1.48	0.00	-0.92	-195.51	-179.47	
BUTTE :	B0793	46	28.13	-113	29.27	5558.0	MT	980219.37	980751.95	2.78	-189.57	-1.47	0.00	-10.10	-198.39	-182.88	
BUTTE :	B0794	46	26.38	-113	29.42	5418.0	MT	980228.54	980749.31	2.59	-184.79	-1.45	0.00	-11.44	-195.10	-179.97	
BUTTE :	B0795	46	25.25	-113	41.41	5979.0	MT	980182.02	980747.61	10.81	-203.93	-1.49	0.00	-3.54	-198.15	-182.12	
BUTTE :	B0796	46	26.30	-113	40.83	7555.0	MT	980089.70	980749.19	13.61	-257.68	-1.50	0.00	50.62	-194.95	-174.71	
BUTTE :	B0797	46	27.77	-113	40.74	8040.0	MT	980063.58	980751.41	14.56	-274.22	-1.47	0.00	67.84	-193.29	-171.77	
BUTTE :	B0798	46	28.11	-113	39.87	8160.0	MT	980055.11	980751.92	13.00	-278.31	-1.46	0.00	70.13	-196.64	-174.66	
BUTTE :	B0799	46	27.62	-113	38.80	8201.0	MT	980049.32	980751.18	17.99	-279.71	-1.45	0.00	68.93	-194.24	-172.56	
BUTTE :	B0800	46	27.69	-113	36.16	7140.0	MT	980126.73	980751.29	4.50	-243.52	-1.51	0.00	46.57	-193.97	-174.15	
BUTTE :	B0801	46	27.63	-113	34.40	7960.0	MT	980072.88	980751.20	9.14	-271.49	-1.47	0.00	69.84	-193.98	-172.24	
BUTTE :	B0802	46	25.93	-113	35.40	7373.0	MT	980108.58	980748.63	6.24	-251.47	-1.51	0.00	52.96	-193.78	-173.45	
BUTTE :	B0803	46	25.29	-113	36.27	7330.0	MT	980110.67	980747.66	5.90	-250.00	-1.51	0.00	51.99	-193.62	-173.38	
BUTTE :	B0804	46	24.66	-113	36.90	7500.0	MT	980097.07	980746.72	9.33	-255.80	-1.50	0.00	55.29	-192.68	-172.25	
BUTTE :	B0805	46	23.42	-113	36.76	6356.0	MT	980163.84	980744.85	7.51	-216.78	-1.51	0.00	16.46	-194.33	-176.96	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0806	46	43.03	-113	16.00	3838.0	MT	980375.62	980774.40	4.38	-130.90	-1.23	0.00	-37.94	-165.70	-155.17	
BUTTE :	B0807	46	41.65	-113	13.20	3910.0	MT	980370.27	980772.62	2.69	-133.36	-1.24	0.00	-34.74	-166.65	-155.78	
BUTTE :	B0808	46	41.52	-113	12.01	3899.0	MT	980367.43	980772.13	3.02	-132.98	-1.24	0.00	-38.12	-169.33	-158.52	
BUTTE :	B0809	46	40.68	-113	10.38	3950.0	MT	980367.28	980770.86	2.09	-134.72	-1.25	0.00	-32.21	-166.10	-155.07	
BUTTE :	B0810	46	40.16	-113	8.73	3970.0	MT	980364.05	980770.07	1.61	-135.41	-1.25	0.00	-32.78	-167.83	-156.71	
BUTTE :	B0811	46	41.27	-113	7.51	4400.0	MT	980339.70	980771.74	2.09	-150.07	-1.33	0.00	-18.39	-167.70	-155.39	
BUTTE :	B0812	46	42.35	-113	8.11	5250.0	MT	980290.90	980773.38	2.22	-179.06	-1.44	0.00	11.06	-167.22	-152.53	
BUTTE :	B0813	46	42.96	-113	10.36	5876.0	MT	980254.36	980774.29	5.19	-200.41	-1.49	0.00	32.43	-164.28	-148.08	
BUTTE :	B0814	46	44.47	-113	10.15	5770.0	MT	980261.90	980776.56	2.49	-196.80	-1.48	0.00	27.73	-168.06	-151.92	
BUTTE :	B0815	46	45.37	-113	11.79	5190.0	MT	980302.06	980777.92	2.46	-177.02	-1.43	0.00	12.04	-163.95	-149.45	
BUTTE :	B0816	46	43.28	-113	13.74	4130.0	MT	980353.66	980774.77	7.01	-140.86	-1.28	0.00	-32.83	-167.97	-156.83	
BUTTE :	B0817	46	23.50	-113	42.34	4800.0	MT	980245.91	980744.97	10.63	-163.71	-1.39	0.00	-47.81	-202.28	-189.55	
BUTTE :	B0818	46	22.80	-113	43.31	5500.0	MT	980207.60	980743.91	7.50	-187.59	-1.46	0.00	-19.28	-200.83	-185.87	
BUTTE :	B0819	46	25.29	-113	40.22	4870.0	MT	980239.89	980747.67	16.31	-166.10	-1.39	0.00	-49.95	-201.13	-188.68	
BUTTE :	B0820	46	34.43	-113	37.62	4440.0	MT	980298.04	980761.44	13.83	-151.44	-1.33	0.00	-45.99	-184.93	-173.48	
BUTTE :	B0821	46	30.62	-113	42.59	5310.0	MT	980229.27	980755.70	14.38	-181.11	-1.44	0.00	-27.25	-195.42	-181.57	
BUTTE :	B0822	46	30.43	-113	41.33	5960.0	MT	980197.21	980755.41	10.69	-203.28	-1.49	0.00	2.05	-192.03	-176.04	
BUTTE :	drummond	46	39.75	-113	9.25	3949.0	MT	980365.65	980769.45	1.22	-134.69	-1.25	0.00	-32.54	-167.26	-156.16	
BUTTE :	B0823	46	38.92	-113	7.15	3992.0	MT	980360.28	980768.20	1.12	-136.16	-1.26	0.00	-32.61	-168.91	-157.68	
BUTTE :	B0824	46	37.89	-113	5.31	4010.0	MT	980358.61	980766.66	1.68	-136.77	-1.26	0.00	-31.04	-167.39	-156.16	
BUTTE :	B0825	46	37.50	-113	4.36	4020.0	MT	980353.85	980766.06	1.51	-137.11	-1.26	0.00	-34.27	-171.14	-159.86	
BUTTE :	B0826	46	36.85	-113	2.57	4070.0	MT	980344.46	980765.09	1.27	-138.82	-1.27	0.00	-37.98	-176.80	-165.36	
BUTTE :	B0827	46	36.27	-113	0.34	4132.0	MT	980350.57	980764.21	1.18	-140.93	-1.28	0.00	-25.18	-166.21	-154.59	
BUTTE :	B0828	46	40.12	-113	5.86	4210.0	MT	980351.30	980770.02	2.04	-143.59	-1.30	0.00	-22.92	-165.76	-153.99	
BUTTE :	B0829	46	41.27	-113	5.29	4460.0	MT	980335.85	980771.74	4.26	-152.12	-1.34	0.00	-16.60	-165.79	-153.50	
BUTTE :	B0830	46	42.73	-113	5.06	5000.0	MT	980309.34	980773.95	1.70	-170.54	-1.41	0.00	5.44	-164.80	-150.78	
BUTTE :	B0831	46	44.27	-113	5.22	4890.0	MT	980314.80	980776.27	1.56	-166.78	-1.40	0.00	-1.76	-168.38	-154.65	
BUTTE :	B0832	46	44.47	-113	6.08	5011.0	MT	980305.50	980776.56	1.30	-170.91	-1.41	0.00	0.01	-171.01	-156.92	
BUTTE :	B0833	46	41.44	-113	3.22	5693.0	MT	980266.87	980772.00	2.09	-194.17	-1.48	0.00	30.03	-163.53	-147.58	
BUTTE :	B0834	46	41.59	-113	1.48	6814.0	MT	980191.76	980772.23	11.58	-232.41	-1.52	0.00	60.02	-162.32	-144.00	
BUTTE :	B0835	46	42.80	-113	1.47	6020.0	MT	980251.08	980774.05	1.84	-205.33	-1.50	0.00	42.92	-162.06	-145.17	
BUTTE :	B0836	46	39.39	-113	9.57	3994.0	MT	980356.90	980768.91	0.95	-136.22	-1.26	0.00	-36.52	-173.05	-161.80	
BUTTE :	B0837	46	38.87	-113	9.72	4012.0	MT	980351.99	980768.13	0.81	-136.84	-1.26	0.00	-38.95	-176.24	-164.93	
BUTTE :	B0838	46	38.30	-113	10.62	4150.0	MT	980340.53	980767.27	1.07	-141.54	-1.29	0.00	-36.58	-178.34	-166.66	
BUTTE :	B0839	46	37.91	-113	9.86	4036.0	MT	980345.83	980766.69	0.73	-137.66	-1.27	0.00	-41.41	-179.60	-168.22	
BUTTE :	B0840	46	45.60	-113	4.74	4742.0	MT	980326.25	980778.27	1.25	-161.74	-1.38	0.00	-6.22	-168.08	-154.75	
BUTTE :	B0841	46	46.44	-113	4.80	4667.0	MT	980332.08	980779.53	0.99	-159.18	-1.37	0.00	-8.71	-168.26	-155.11	
BUTTE :	B0842	46	46.19	-113	3.72	4554.0	MT	980343.15	980782.14	0.98	-155.32	-1.35	0.00	-10.89	-166.67	-153.83	
BUTTE :	B0843	46	49.11	-113	2.43	4499.0	MT	980351.05	980783.55	0.96	-153.45	-1.34	0.00	-9.55	-163.38	-150.70	
BUTTE :	B0844	46	49.60	-113	0.64	4459.0	MT	980351.39	980784.29	0.95	-152.08	-1.34	0.00	-13.70	-166.17	-153.61	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0845	46	51.64	-113	0.38	4329.0	MT	980351.29	980787.36	0.56	-147.65	-1.32	0.00	-29.09	-177.50	-165.27	
BUTTE :	B0846	46	52.53	-113	2.29	4313.0	MT	980362.47	980788.70	0.63	-147.10	-1.31	0.00	-20.76	-168.54	-156.37	
BUTTE :	B0847	46	53.39	-113	3.27	4328.0	MT	980364.78	980790.00	0.58	-147.62	-1.32	0.00	-18.33	-166.68	-154.46	
BUTTE :	B0848	46	55.13	-113	3.56	4316.0	MT	980351.85	980792.62	0.40	-147.21	-1.31	0.00	-35.01	-183.13	-170.92	
BUTTE :	B0849	46	54.25	-113	3.58	4270.0	MT	980358.86	980791.29	0.53	-145.64	-1.31	0.00	-31.00	-177.41	-165.35	
BUTTE :	B0850	46	55.12	-113	1.65	4298.0	MT	980355.20	980792.60	0.35	-146.59	-1.31	0.00	-33.33	-180.89	-168.73	
BUTTE :	B0851	46	55.13	-113	0.37	4266.0	MT	980356.64	980792.62	0.40	-145.50	-1.31	0.00	-34.92	-181.32	-169.26	
BUTTE :	B0852	46	54.28	-113	0.79	4260.0	MT	980359.54	980791.28	0.40	-145.30	-1.31	0.00	-31.24	-177.44	-165.49	
BUTTE :	B0853	46	56.00	-113	1.01	4347.0	MT	980345.49	980793.93	0.42	-148.26	-1.32	0.00	-39.76	-188.92	-176.62	
BUTTE :	B0854	46	56.87	-113	1.25	4298.0	MT	980347.52	980795.23	0.38	-146.59	-1.31	0.00	-43.65	-191.17	-179.01	
BUTTE :	B0855	46	57.97	-113	0.44	4331.0	MT	980347.61	980796.89	0.51	-147.72	-1.32	0.00	-42.11	-190.64	-178.40	
BUTTE :	B0856	46	56.87	-113	2.91	4318.0	MT	980348.96	980795.23	0.36	-147.27	-1.31	0.00	-40.33	-188.56	-176.34	
BUTTE :	B0857	46	55.98	-113	4.34	4374.0	MT	980352.38	980793.90	0.64	-149.19	-1.32	0.00	-30.30	-180.17	-167.82	
BUTTE :	B0858	46	57.29	-113	5.49	4343.0	MT	980365.79	980795.85	0.47	-148.13	-1.32	0.00	-21.77	-170.74	-158.47	
BUTTE :	B0859	46	58.89	-113	5.69	4087.0	MT	980384.01	980798.28	0.74	-139.40	-1.28	0.00	-30.03	-169.96	-158.43	
BUTTE :	B0860	46	59.83	-113	5.35	4183.0	MT	980374.98	980799.70	0.56	-142.67	-1.29	0.00	-31.45	-174.85	-163.04	
BUTTE :	B0861	46	59.49	-113	0.34	4201.0	MT	980366.43	980799.18	0.70	-143.28	-1.30	0.00	-37.80	-181.68	-169.83	
BUTTE :	B0862	46	59.80	-113	1.63	4180.0	MT	980371.91	980799.65	0.67	-142.57	-1.29	0.00	-34.76	-177.95	-166.15	
BUTTE :	B0863	46	55.98	-113	6.28	4311.0	MT	980366.53	980793.90	0.81	-147.04	-1.31	0.00	-22.08	-169.62	-157.46	
BUTTE :	B0864	46	57.25	-113	7.93	4423.0	MT	980371.05	980795.81	1.64	-150.86	-1.33	0.00	-8.95	-159.49	-147.09	
BUTTE :	B0865	46	58.37	-113	8.78	4189.0	MT	980386.52	980797.49	2.63	-142.88	-1.29	0.00	-17.15	-158.69	-147.02	
BUTTE :	B0866	46	59.05	-113	10.34	4250.0	MT	980384.79	980798.52	2.03	-144.96	-1.30	0.00	-14.17	-158.40	-146.52	
BUTTE :	B0867	46	59.57	-113	12.48	4307.0	MT	980381.37	980799.30	1.34	-146.90	-1.31	0.00	-13.02	-159.90	-147.79	
BUTTE :	B0868	46	57.57	-113	12.82	4700.0	MT	980356.86	980796.29	4.35	-160.30	-1.37	0.00	2.42	-154.91	-141.95	
BUTTE :	B0869	46	57.36	-113	10.51	5590.0	MT	980299.60	980795.98	3.13	-190.66	-1.47	0.00	29.11	-159.89	-144.32	
BUTTE :	B0871	46	35.96	-113	11.25	4173.0	MT	980326.95	980763.75	0.65	-142.33	-1.29	0.00	-44.47	-187.44	-175.66	
BUTTE :	B0872	46	34.68	-113	12.10	4218.0	MT	980325.68	980761.76	0.80	-143.86	-1.30	0.00	-40.13	-184.49	-172.59	
BUTTE :	B0873	46	33.17	-113	13.82	4313.0	MT	980322.37	980759.58	1.11	-147.10	-1.31	0.00	-31.70	-179.00	-166.87	
BUTTE :	B0874	46	32.03	-113	11.73	4500.0	MT	980313.50	980757.83	1.87	-153.48	-1.34	0.00	-21.27	-174.23	-161.62	
BUTTE :	B0875	46	30.05	-113	10.20	4850.0	MT	980285.89	980754.84	4.29	-165.42	-1.39	0.00	-13.00	-175.52	-162.13	
BUTTE :	B0876	46	29.35	-113	8.50	5420.0	MT	980252.79	980753.79	5.52	-184.06	-1.45	0.00	8.52	-172.28	-157.38	
BUTTE :	B0877	46	30.10	-113	7.28	5740.0	MT	980237.91	980754.91	3.13	-195.77	-1.48	0.00	22.58	-171.54	-155.55	
BUTTE :	B0878	46	31.00	-113	5.72	5940.0	MT	980229.00	980756.27	3.41	-202.60	-1.49	0.00	31.10	-169.58	-153.04	
BUTTE :	B0879	46	31.88	-113	5.03	4880.0	MT	980294.60	980757.60	4.98	-166.44	-1.40	0.00	-4.23	-167.09	-153.67	
BUTTE :	B0880	46	33.61	-113	4.65	4532.0	MT	980320.39	980760.20	2.38	-154.57	-1.35	0.00	-13.75	-167.29	-154.68	
BUTTE :	B0881	46	34.77	-113	3.20	4270.0	MT	980338.64	980761.95	1.56	-145.64	-1.31	0.00	-21.87	-167.26	-155.28	
BUTTE :	B0882	46	35.76	-113	2.38	4079.0	MT	980346.16	980763.45	1.31	-139.12	-1.27	0.00	-33.79	-172.88	-161.42	
BUTTE :	B0883	46	35.64	-113	0.73	4085.0	MT	980350.85	980763.27	1.49	-139.33	-1.28	0.00	-28.36	-167.47	-156.01	
BUTTE :	B0884	46	37.44	-113	7.92	4140.0	MT	980336.65	980765.98	0.76	-141.20	-1.28	0.00	-40.11	-181.84	-170.16	
BUTTE :	B0885	46	38.01	-113	6.72	4005.0	MT	980351.90	980766.84	0.97	-136.60	-1.26	0.00	-38.40	-175.29	-164.01	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0886	46	36.88	-113	8.57	4067.0	MT	980340.32	980765.13	1.01	-138.71	-1.27	0.00	-42.85	-181.43	-169.98	
BUTTE :	B0887	46	35.39	-113	9.54	4140.0	MT	980333.49	980762.89	1.00	-141.20	-1.28	0.00	-40.17	-181.66	-170.00	
BUTTE :	B0888	46	35.14	-113	7.32	4425.0	MT	980323.01	980762.51	0.68	-150.92	-1.33	0.00	-23.50	-175.07	-162.58	
BUTTE :	B0889	46	34.26	-113	6.69	4500.0	MT	980322.24	980761.19	0.91	-153.48	-1.34	0.00	-15.89	-169.80	-157.12	
BUTTE :	B0890	46	31.40	-113	13.49	4428.0	MT	980315.22	980756.68	1.70	-151.03	-1.33	0.00	-25.37	-176.03	-163.61	
BUTTE :	B0891	46	30.31	-113	13.47	4524.0	MT	980302.03	980755.23	1.81	-154.30	-1.35	0.00	-27.89	-181.73	-169.05	
BUTTE :	B0892	46	30.31	-113	14.64	4523.0	MT	980301.39	980755.23	1.62	-154.27	-1.35	0.00	-28.63	-182.62	-169.93	
BUTTE :	B0893	46	35.12	-113	13.57	4308.0	MT	980328.53	980762.48	0.94	-146.93	-1.31	0.00	-32.94	-180.25	-168.11	
BUTTE :	B0894	46	34.26	-113	14.88	4421.0	MT	980318.20	980761.19	0.74	-150.79	-1.33	0.00	-27.35	-178.73	-166.26	
BUTTE :	B0895	46	35.99	-113	14.84	4355.0	MT	980325.74	980763.79	0.68	-148.54	-1.32	0.00	-28.62	-177.80	-165.51	
BUTTE :	B0896	46	36.86	-113	13.62	4348.0	MT	980329.21	980765.10	0.67	-148.38	-1.32	0.00	-27.12	-176.07	-163.80	
BUTTE :	B0897	46	37.75	-113	12.36	4272.0	MT	980326.76	980766.45	0.66	-145.71	-1.31	0.00	-30.06	-184.41	-172.35	
BUTTE :	B0928	46	38.22	-113	3.30	4190.0	MT	980339.90	980767.15	1.67	-142.91	-1.29	0.00	-33.33	-175.87	-164.12	
BUTTE :	B0929	46	39.37	-113	2.49	4700.0	MT	980317.16	980768.88	1.94	-160.30	-1.37	0.00	-9.87	-169.60	-156.44	
BUTTE :	B0930	46	38.93	-113	12.56	4140.0	MT	980345.52	980768.22	0.89	-141.20	-1.28	0.00	-33.48	-175.08	-163.41	
BUTTE :	B0931	46	39.50	-113	13.61	4408.0	MT	980335.44	980769.08	0.69	-150.34	-1.33	0.00	-19.23	-170.22	-157.78	
BUTTE :	B0932	46	38.11	-113	14.87	4780.0	MT	980309.50	980766.98	0.83	-163.03	-1.38	0.00	-8.12	-171.70	-158.22	
BUTTE :	B0933	46	39.12	-113	16.10	5284.0	MT	980275.63	980768.51	3.19	-180.22	-1.44	0.00	3.86	-174.62	-159.91	
BUTTE :	B0934	46	36.88	-113	16.15	4429.0	MT	980324.89	980765.13	0.88	-151.06	-1.33	0.00	-23.86	-175.37	-162.89	
BUTTE :	B0935	46	39.37	-113	21.11	4877.0	MT	980304.91	980768.88	1.63	-166.34	-1.40	0.00	-5.48	-171.59	-157.90	
BUTTE :	B0936	46	38.22	-113	18.65	4607.0	MT	980318.08	980767.15	0.92	-157.13	-1.36	0.00	-15.96	-173.53	-160.55	
BUTTE :	B0937	46	39.49	-113	19.29	4611.0	MT	980319.91	980769.06	0.87	-157.27	-1.36	0.00	-15.66	-173.42	-160.42	
BUTTE :	B0938	46	36.88	-113	18.68	4699.0	MT	980308.43	980765.13	1.01	-160.27	-1.37	0.00	-14.94	-175.58	-162.38	
BUTTE :	B0939	46	36.15	-113	21.22	4950.0	MT	980290.77	980764.03	1.52	-168.83	-1.40	0.00	-7.91	-176.63	-162.73	
BUTTE :	B0940	46	35.74	-113	24.56	5723.0	MT	980240.75	980763.41	2.08	-195.20	-1.48	0.00	15.32	-179.27	-163.24	
BUTTE :	B0941	46	34.90	-113	23.47	5192.0	MT	980269.08	980762.15	1.71	-177.08	-1.43	0.00	-4.98	-181.79	-167.22	
BUTTE :	B0942	46	33.70	-113	21.20	4647.0	MT	980288.92	980760.34	1.96	-165.32	-1.39	0.00	-15.75	-180.50	-166.93	
BUTTE :	B0943	46	32.49	-113	17.39	4808.0	MT	980286.96	980758.52	0.78	-163.99	-1.39	0.00	-19.55	-184.15	-170.59	
BUTTE :	B0944	46	34.24	-113	17.04	4533.0	MT	980314.26	980761.16	1.19	-154.61	-1.35	0.00	-20.74	-175.51	-162.75	
BUTTE :	B0945	46	35.12	-113	16.14	4440.0	MT	980320.93	980762.48	0.97	-151.44	-1.33	0.00	-24.14	-175.93	-163.43	
BUTTE :	B0946	46	35.01	-113	25.93	5360.0	MT	980258.46	980762.31	3.20	-182.81	-1.45	0.00	0.02	-181.04	-166.12	
BUTTE :	B0947	46	35.85	-113	26.99	5020.0	MT	980279.08	980763.58	5.10	-171.22	-1.41	0.00	-12.58	-180.11	-166.30	
BUTTE :	B0948	46	36.92	-113	25.69	4737.0	MT	980301.78	980765.20	5.28	-161.57	-1.38	0.00	-18.08	-175.75	-162.75	
BUTTE :	B0949	46	37.44	-113	22.75	6153.0	MT	980221.35	980766.01	4.81	-209.86	-1.50	0.00	33.73	-172.82	-155.80	
BUTTE :	B0950	46	33.90	-113	22.81	5150.0	MT	980269.85	980760.64	1.23	-175.65	-1.43	0.00	-6.65	-182.50	-168.01	
BUTTE :	B0951	46	32.74	-113	22.49	5160.0	MT	980257.59	980758.90	2.43	-175.99	-1.43	0.00	-16.22	-191.21	-176.79	
BUTTE :	B0952	46	31.61	-113	19.93	5096.0	MT	980262.88	980757.20	1.22	-173.81	-1.42	0.00	-15.24	-189.25	-174.92	
BUTTE :	B0953	46	31.22	-113	21.16	4985.0	MT	980271.28	980756.60	2.69	-170.02	-1.41	0.00	-16.69	-185.43	-171.53	
BUTTE :	B0954	46	30.40	-113	22.67	5120.0	MT	980260.13	980755.37	3.18	-174.63	-1.42	0.00	-13.91	-186.79	-172.54	
BUTTE :	B0955	46	30.80	-113	23.72	5550.0	MT	980235.23	980755.97	2.84	-189.29	-1.47	0.00	0.99	-186.93	-171.44	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION prol	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0956	46	31.59	-113	17.40	4782.0	MT	980286.02	980757.16	0.88	-163.10	-1.38	0.00	-21.58	-185.18	-171.70	
BUTTE :	B0957	46	31.59	-113	15.51	4637.0	MT	980299.99	980757.16	1.06	-158.15	-1.36	0.00	-21.24	-179.70	-166.64	
BUTTE :	phillish	46	19.90	-113	17.65	5239.0	MT	980229.00	980739.70	4.62	-178.69	-1.44	0.00	-18.29	-193.79	-179.33	
BUTTE :	B0958	46	18.58	-113	18.22	5224.0	MT	980225.74	980737.55	2.44	-178.18	-1.44	0.00	-20.71	-197.89	-183.29	
BUTTE :	B0959	46	17.96	-113	18.74	5283.0	MT	980220.88	980736.63	1.96	-180.19	-1.44	0.00	-19.10	-198.76	-183.96	
BUTTE :	B0960	46	17.97	-113	19.69	5228.0	MT	980227.37	980736.64	1.61	-178.31	-1.44	0.00	-17.80	-195.93	-181.26	
BUTTE :	B0961	46	17.48	-113	17.30	5678.0	MT	980199.81	980735.90	2.16	-193.66	-1.48	0.00	-2.33	-195.30	-179.40	
BUTTE :	B0962	46	17.49	-113	15.08	5743.0	MT	980193.29	980735.91	7.95	-195.88	-1.48	0.00	-2.75	-192.16	-176.56	
BUTTE :	B0963	46	19.43	-113	19.17	5154.0	MT	980225.74	980738.84	1.72	-175.79	-1.43	0.00	-28.57	-204.07	-189.61	
BUTTE :	B0964	46	18.95	-113	22.42	5830.0	MT	980193.83	980738.12	1.85	-198.84	-1.49	0.00	3.76	-194.72	-178.37	
BUTTE :	B0965	46	15.32	-113	24.15	6290.0	MT	980163.58	980732.64	1.36	-212.15	-1.51	0.00	15.63	-196.67	-179.17	
BUTTE :	B0966	46	17.28	-113	25.44	6282.0	MT	980162.69	980735.59	1.66	-214.26	-1.51	0.00	17.60	-196.50	-178.86	
BUTTE :	B0967	46	17.92	-113	25.66	5725.0	MT	980197.52	980736.56	2.50	-195.26	-1.48	0.00	-0.86	-195.10	-179.10	
BUTTE :	B0968	46	15.11	-113	19.90	5397.0	MT	980207.65	980732.33	1.80	-184.08	-1.45	0.00	-17.32	-201.05	-185.91	
BUTTE :	B0969	46	16.62	-113	19.68	5290.0	MT	980220.29	980734.60	1.69	-180.43	-1.44	0.00	-17.01	-197.19	-182.34	
BUTTE :	B0970	46	13.74	-113	13.94	6761.0	MT	980136.16	980730.26	2.95	-230.60	-1.52	0.00	41.42	-187.74	-168.86	
BUTTE :	B0971	46	14.80	-113	12.89	7020.0	MT	980121.97	980731.86	3.26	-239.43	-1.52	0.00	49.96	-187.72	-168.14	
BUTTE :	B0972	46	16.06	-113	11.74	7340.0	MT	980103.03	980733.76	3.75	-250.35	-1.51	0.00	59.19	-188.91	-168.47	
BUTTE :	B0973	46	17.49	-113	10.80	8076.0	MT	980056.78	980735.91	4.06	-275.45	-1.46	0.00	79.92	-192.93	-170.45	
BUTTE :	B0974	46	18.57	-113	8.34	7680.0	MT	980081.86	980737.54	3.32	-261.98	-1.49	0.00	66.17	-193.94	-172.51	
BUTTE :	B0975	46	10.95	-113	9.41	6180.0	MT	980163.29	980726.05	3.87	-209.42	-1.50	0.00	14.41	-192.64	-175.58	
BUTTE :	B0976	46	12.26	-113	10.29	6320.0	MT	980159.46	980728.03	3.90	-215.56	-1.51	0.00	25.52	-187.65	-170.08	
BUTTE :	B0977	46	13.50	-113	10.92	6490.0	MT	980149.03	980729.90	5.29	-221.35	-1.51	0.00	29.19	-188.39	-170.46	
BUTTE :	B0978	46	15.78	-113	8.07	7400.0	MT	980095.01	980733.34	4.12	-252.39	-1.51	0.00	57.22	-192.55	-171.97	
BUTTE :	B0979	46	14.73	-113	9.39	6960.0	MT	980120.60	980731.75	4.34	-237.39	-1.52	0.00	43.07	-191.50	-172.17	
BUTTE :	B09A0	46	10.86	-113	8.12	6070.0	MT	980166.33	980725.92	4.95	-207.03	-1.50	0.00	11.01	-192.57	-175.80	
BUTTE :	B09A1	46	12.75	-113	7.11	6510.0	MT	980139.39	980728.77	7.54	-222.04	-1.51	0.00	22.56	-193.45	-175.65	
BUTTE :	B09A2	46	10.98	-113	5.66	6190.0	MT	980158.25	980726.10	6.01	-211.12	-1.50	0.00	14.02	-192.60	-175.57	
BUTTE :	B09A3	46	13.40	-113	4.64	8410.0	MT	980020.75	980729.75	8.55	-286.84	-1.43	0.00	81.43	-198.29	-175.24	
BUTTE :	B09A4	46	12.61	-113	5.60	8412.0	MT	980019.82	980728.55	11.18	-286.91	-1.43	0.00	81.88	-195.28	-172.48	
BUTTE :	B09A5	46	12.53	-113	0.10	6130.0	MT	980148.22	980728.44	15.02	-209.08	-1.50	0.00	-3.99	-199.54	-183.43	
BUTTE :	B09A6	46	20.12	-113	37.05	5800.0	MT	980192.85	980739.88	2.91	-197.82	-1.48	0.00	-1.80	-198.20	-182.01	
BUTTE :	B09A7	46	19.38	-113	36.56	6360.0	MT	980155.38	980738.77	5.87	-217.19	-1.51	0.00	15.22	-197.62	-180.08	
BUTTE :	B09A8	46	18.77	-113	37.49	6130.0	MT	980169.83	980737.84	1.85	-209.08	-1.50	0.00	0.22	-200.51	-183.31	
BUTTE :	B09A9	46	20.06	-113	38.06	5030.0	MT	980236.64	980739.79	5.31	-171.56	-1.41	0.00	-30.28	-197.94	-184.13	
BUTTE :	B09B0	46	19.31	-113	39.97	5320.0	MT	980215.54	980738.66	6.11	-181.45	-1.45	0.00	-23.00	-199.78	-185.22	
BUTTE :	B09B1	46	17.68	-113	40.74	5550.0	MT	980198.64	980736.20	7.23	-189.29	-1.47	0.00	-15.83	-199.36	-184.23	
BUTTE :	B09B2	46	20.24	-113	39.51	5910.0	MT	980183.35	980740.05	2.53	-201.57	-1.49	0.00	-1.15	-201.68	-185.16	
BUTTE :	B09B3	46	19.10	-113	43.74	8060.0	MT	980048.87	980738.34	11.83	-274.90	-1.46	0.00	68.88	-196.46	-174.66	
BUTTE :	B09B4	46	20.00	-113	44.17	8030.0	MT	980051.85	980739.78	9.24	-273.88	-1.47	0.00	66.89	-199.22	-177.29	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B0995	46	19.72	-113	41.25	6636.0	MT	980136.61	980739.27	6.90	-226.33	-1.52	0.00	21.11	-199.84	-181.64	
BUTTE :	B0996	46	19.14	-113	15.58	6550.0	MT	980152.81	980738.40	3.46	-223.40	-1.51	0.00	30.11	-191.35	-173.10	
BUTTE :	B0997	46	19.03	-113	12.84	7740.0	MT	980077.16	980738.23	5.32	-263.99	-1.49	0.00	66.42	-193.74	-172.30	
BUTTE :	B0998	46	20.67	-113	17.25	5600.0	MT	980211.46	980740.70	2.82	-191.00	-1.47	0.00	-2.79	-192.48	-176.81	
BUTTE :	B0999	46	21.33	-113	15.56	5920.0	MT	980192.87	980741.70	4.90	-201.91	-1.49	0.00	7.67	-190.84	-174.48	
BUTTE :	B1000	46	21.42	-113	18.85	5044.0	MT	980239.65	980741.84	2.45	-172.04	-1.42	0.00	-27.99	-198.99	-184.90	
BUTTE :	B1001	46	22.05	-113	19.91	5070.0	MT	980236.94	980742.79	2.27	-172.92	-1.42	0.00	-29.22	-201.29	-187.12	
BUTTE :	B1002	46	22.95	-113	18.70	5030.0	MT	980251.43	980744.14	2.49	-171.56	-1.41	0.00	-19.85	-190.33	-176.28	
BUTTE :	B1003	46	24.28	-113	17.82	4964.0	MT	980255.90	980746.15	3.31	-169.31	-1.41	0.00	-23.58	-190.99	-177.19	
BUTTE :	B1004	46	25.50	-113	16.47	4920.0	MT	980259.85	980747.98	5.23	-167.81	-1.40	0.00	-25.60	-189.58	-176.07	
BUTTE :	B1005	46	26.46	-113	15.44	4878.0	MT	980265.94	980749.43	5.36	-166.37	-1.40	0.00	-24.91	-187.32	-173.94	
BUTTE :	B1006	46	27.87	-113	14.03	4835.0	MT	980277.60	980751.55	2.92	-164.91	-1.39	0.00	-19.41	-182.79	-169.33	
BUTTE :	B1007	46	26.49	-113	12.63	5060.0	MT	980258.73	980749.48	5.83	-172.58	-1.42	0.00	-15.06	-183.23	-169.37	
BUTTE :	B1008	46	25.24	-113	13.97	5460.0	MT	980230.65	980747.59	5.46	-186.23	-1.46	0.00	-3.67	-185.89	-170.88	
BUTTE :	B1009	46	24.03	-113	14.89	5830.0	MT	980209.24	980745.77	2.76	-198.84	-1.49	0.00	11.51	-186.06	-169.78	
BUTTE :	B1010	46	22.75	-113	16.73	6060.0	MT	980187.73	980743.84	2.94	-206.69	-1.50	0.00	13.55	-191.70	-174.79	
BUTTE :	B1011	46	28.87	-113	14.04	4704.0	MT	980289.45	980753.06	2.64	-160.44	-1.37	0.00	-21.38	-180.55	-167.44	
BUTTE :	B1012	46	29.77	-113	16.75	4795.0	MT	980282.43	980754.42	2.04	-163.54	-1.39	0.00	-21.21	-184.10	-170.68	
BUTTE :	B1013	46	29.09	-113	18.63	5180.0	MT	980256.45	980753.40	2.72	-176.67	-1.43	0.00	-9.98	-185.37	-170.92	
BUTTE :	B1014	46	28.64	-113	20.00	5500.0	MT	980235.61	980753.02	2.75	-187.59	-1.46	0.00	-0.38	-186.68	-171.33	
BUTTE :	B1015	46	27.23	-113	20.40	5889.0	MT	980209.25	980750.59	1.69	-200.86	-1.49	0.00	12.24	-188.41	-171.88	
BUTTE :	B1016	46	25.50	-113	22.20	6390.0	MT	980177.92	980747.98	2.47	-217.60	-1.51	0.00	29.66	-186.99	-169.14	
BUTTE :	B1017	46	26.88	-113	21.86	6430.0	MT	980176.19	980750.06	2.83	-219.31	-1.51	0.00	30.54	-187.45	-169.49	
BUTTE :	B1018	46	27.35	-113	23.49	5680.0	MT	980223.23	980750.77	3.07	-193.73	-1.48	0.00	6.41	-185.73	-169.90	
BUTTE :	B1019	46	28.29	-113	23.46	5510.0	MT	980234.41	980752.19	4.07	-187.93	-1.46	0.00	0.20	-185.13	-169.86	
BUTTE :	B1020	46	24.69	-113	24.66	6810.0	MT	980148.75	980747.07	3.75	-232.27	-1.52	0.00	41.80	-188.23	-169.28	
BUTTE :	B1021	46	25.29	-113	26.83	7937.0	MT	980069.32	980747.66	15.74	-270.71	-1.47	0.00	67.66	-188.78	-167.65	
BUTTE :	B1022	46	24.04	-113	22.60	6060.0	MT	980193.87	980745.79	1.49	-206.69	-1.50	0.00	17.74	-188.96	-171.93	
BUTTE :	B1023	46	22.93	-113	21.80	5530.0	MT	980221.69	980744.11	1.24	-188.61	-1.46	0.00	-2.57	-191.41	-175.85	
BUTTE :	B1024	46	25.34	-113	10.44	5300.0	MT	980243.93	980747.74	7.17	-180.77	-1.48	0.00	-5.58	-180.62	-166.19	
BUTTE :	B1025	46	26.02	-113	7.79	6420.0	MT	980177.29	980748.77	6.09	-218.97	-1.51	0.00	32.00	-182.39	-164.73	
BUTTE :	B1026	46	24.50	-113	9.08	5565.0	MT	980223.18	980746.48	7.98	-189.81	-1.47	0.00	-0.16	-183.45	-168.35	
BUTTE :	B1027	46	24.02	-113	11.25	6530.0	MT	980168.46	980745.76	3.03	-222.72	-1.51	0.00	36.52	-184.68	-166.46	
BUTTE :	B1028	46	23.48	-113	7.65	6170.0	MT	980183.95	980744.95	6.09	-210.44	-1.50	0.00	19.00	-186.85	-169.89	
BUTTE :	B1029	46	22.60	-113	6.59	6740.0	MT	980148.26	980743.62	5.63	-229.88	-1.52	0.00	38.19	-187.58	-168.98	
BUTTE :	B1030	46	24.79	-113	7.99	6260.0	MT	980183.37	980746.91	4.85	-213.51	-1.51	0.00	24.90	-185.27	-167.95	
BUTTE :	B1031	46	25.71	-113	5.73	7160.0	MT	980129.60	980748.30	4.89	-244.21	-1.51	0.00	54.30	-186.53	-166.68	
BUTTE :	B1032	46	25.14	-113	4.44	8260.0	MT	980058.91	980747.45	8.30	-281.73	-1.45	0.00	87.81	-187.06	-164.41	
BUTTE :	B1033	46	29.11	-113	11.75	4860.0	MT	980280.87	980753.42	3.81	-165.76	-1.39	0.00	-15.67	-179.01	-165.55	
BUTTE :	B1034	46	27.72	-113	11.24	5350.0	MT	980247.35	980751.33	4.23	-182.47	-1.45	0.00	-1.04	-180.73	-165.93	

West half BUTTE Quad
Bouguer Gravity at Density=2.67
Meter ID: Date: 04/06/81

STATION IDENTIFICATION proj	sta-id	LOCATIONS LATITUDE deg	min	LONGITUDE deg	min	ELE (in ft)	ST	GRAVITY OBSERVED	THEORETICAL	CORRECTIONS TERRAIN	BOUGUER	CURV	SPECIAL	ANOMALIES FREE AIR	COMPLETE-BOUGUER d1=2.67	d2=2.45	SPEC FIELDS
BUTTE :	B1048	46	17.54	-113	0.84	6060.0	MT	980158.03	980735.99	15.88	-206.69	-1.50	0.00	-8.30	-200.61	-184.76	
BUTTE :	B1049	46	18.36	-113	3.10	6380.0	MT	980142.52	980737.23	11.23	-217.60	-1.51	0.00	5.02	-202.86	-185.74	
BUTTE :	B1052	46	27.99	-113	3.04	6530.0	MT	980177.81	980751.73	4.95	-222.72	-1.51	0.00	39.89	-179.40	-161.33	
BUTTE :	B1053	46	28.86	-113	1.73	6170.0	MT	980207.00	980753.05	4.17	-210.44	-1.50	0.00	33.94	-173.83	-156.71	
BUTTE :	B1054	46	15.30	-113	34.19	6180.0	MT	980159.03	980732.61	1.96	-210.78	-1.50	0.00	7.35	-202.98	-185.65	
BUTTE :	B1055	46	16.19	-113	33.96	7050.0	MT	980102.77	980733.95	8.47	-240.46	-1.51	0.00	31.49	-202.01	-182.77	
BUTTE :	B1056	46	16.41	-113	35.75	6040.0	MT	980170.30	980734.29	1.53	-206.01	-1.50	0.00	3.79	-202.19	-185.22	
BUTTE :	B1057	46	20.65	-113	30.85	4970.0	MT	980242.58	980740.68	2.04	-169.51	-1.41	0.00	-30.87	-199.75	-185.83	
BUTTE :	B1058	46	22.06	-113	29.97	5075.0	MT	980238.45	980742.80	2.73	-173.09	-1.42	0.00	-27.25	-199.04	-184.88	
BUTTE :	B1059	46	21.27	-113	33.49	6336.0	MT	980159.70	980741.61	3.66	-216.10	-1.51	0.00	13.68	-200.27	-182.64	
BUTTE :	B1060	46	21.29	-113	32.16	5620.0	MT	980205.80	980741.64	1.63	-191.68	-1.47	0.00	-7.53	-199.06	-183.28	
BUTTE :	B1061	46	23.01	-113	32.07	6000.0	MT	980192.17	980744.23	1.22	-204.64	-1.50	0.00	11.96	-192.96	-176.08	
BUTTE :	B1062	46	23.09	-113	29.54	5207.0	MT	980228.79	980744.34	2.57	-177.60	-1.43	0.00	-26.05	-202.51	-187.97	
BUTTE :	B1063	46	24.68	-113	30.29	5240.0	MT	980236.06	980746.75	3.11	-178.72	-1.44	0.00	-18.09	-195.14	-180.55	
BUTTE :	B1064	46	25.19	-113	32.11	5800.0	MT	980197.62	980747.45	1.87	-197.82	-1.48	0.00	-4.60	-202.04	-185.77	
BUTTE :	B1065	46	24.31	-113	33.19	6150.0	MT	980182.83	980746.20	2.81	-209.76	-1.50	0.00	14.75	-193.71	-176.53	
BUTTE :	B1066	46	15.98	-113	29.62	5182.0	MT	980218.75	980733.64	3.66	-176.74	-1.43	0.00	-27.74	-202.25	-187.87	
BUTTE :	B1067	46	16.25	-113	27.18	5860.0	MT	980183.71	980734.05	1.31	-199.87	-1.49	0.00	0.53	-199.52	-183.03	
BUTTE :	B1068	46	16.83	-113	27.92	6354.0	MT	980154.47	980734.92	3.21	-216.72	-1.51	0.00	16.83	-198.19	-180.47	
BUTTE :	B1069	46	16.08	-113	17.00	6190.0	MT	980164.32	980733.79	2.38	-211.12	-1.50	0.00	12.40	-197.85	-180.52	
BUTTE :	B1070	46	26.99	-113	26.73	7685.0	MT	980092.74	980750.23	12.16	-262.11	-1.49	0.00	64.84	-186.61	-165.89	
BUTTE :	B1071	46	28.91	-113	27.22	7857.0	MT	980082.86	980753.13	16.38	-267.98	-1.48	0.00	68.21	-184.87	-164.01	
BUTTE :	B1072	46	30.47	-113	27.44	7835.0	MT	980089.80	980755.48	12.74	-267.23	-1.48	0.00	70.74	-185.24	-164.14	
BUTTE :	B1073	46	32.03	-113	27.90	7658.0	MT	980107.28	980757.83	8.96	-261.19	-1.49	0.00	69.24	-184.48	-163.58	
BUTTE :	B1074	46	15.98	-113	20.87	5325.0	MT	980216.48	980733.64	1.40	-181.62	-1.45	0.00	-16.56	-198.23	-183.26	
BUTTE :	B1075	46	13.31	-113	27.59	7018.0	MT	980107.47	980729.61	4.89	-239.36	-1.52	0.00	37.52	-198.47	-179.02	
BUTTE :	B1076	46	13.43	-113	26.57	6897.0	MT	980116.68	980729.80	4.73	-235.24	-1.52	0.00	35.19	-196.84	-177.72	
BUTTE :	B1077	46	14.22	-113	28.70	6311.0	MT	980152.52	980730.98	2.28	-215.25	-1.51	0.00	14.78	-199.70	-182.03	
BUTTE :	B1078	46	13.84	-113	24.57	5680.0	MT	980190.52	980730.41	2.01	-193.73	-1.48	0.00	-5.94	-199.13	-183.21	

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE
REPORT 81-949
FIGURE 2

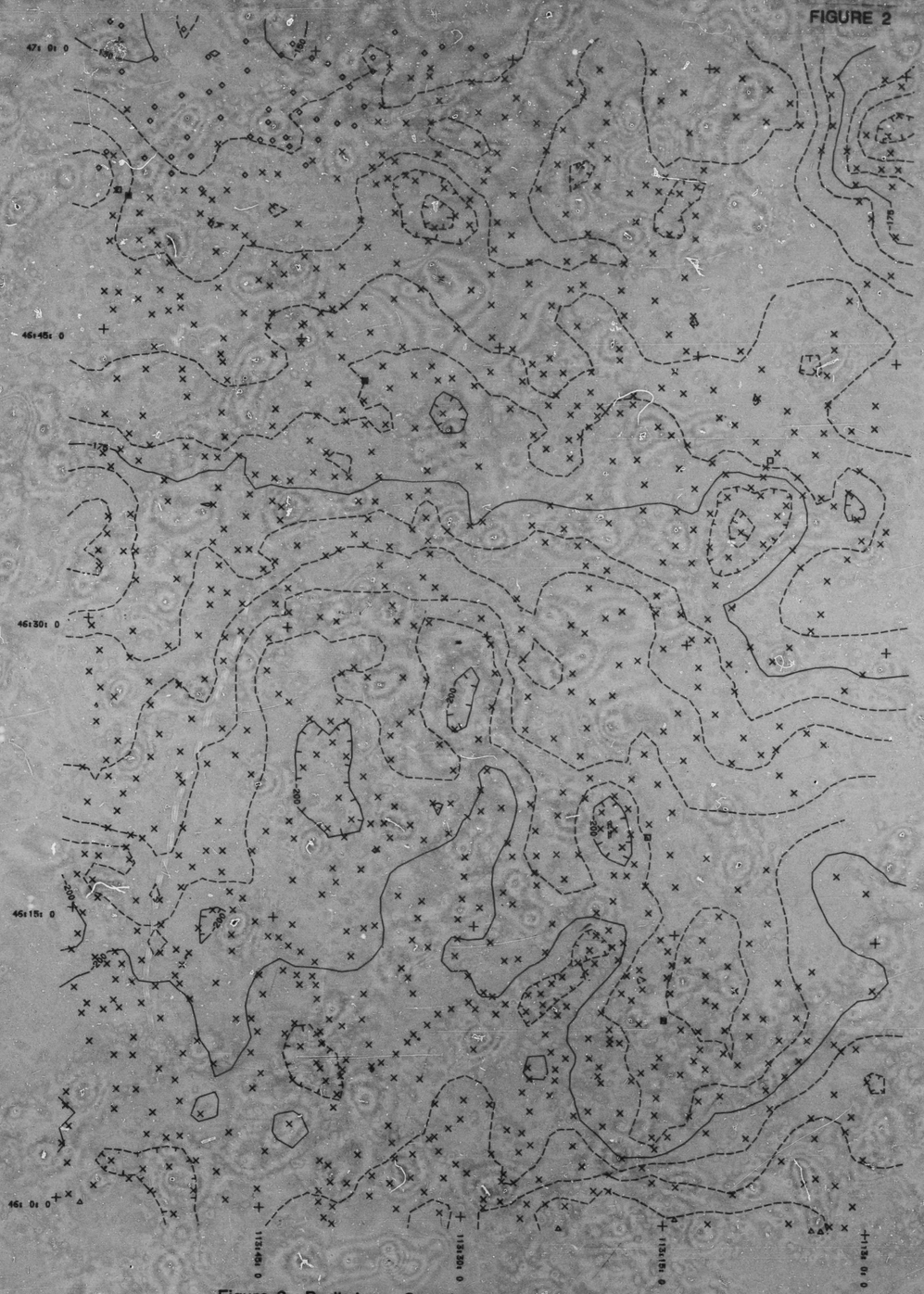


Figure 2. Preliminary Complete Bouguer Gravity Anomaly Map
West Half of the Butte 1° X 2° Quadrangle, Montana
1981

SCALE 1:250,000

0 5 10 MILES
0 5 10 15 KILOMETERS

GRAVITY STATION CODE
× J.H. Hassemer
◇ D.M. Kulik
△ H.E. Kaufmann
□ base station

EXPLANATION
—200— Index gravity contour
Intermediate gravity contour
Gravity contour enclosing area of low gravity
Contour interval 5 mgal

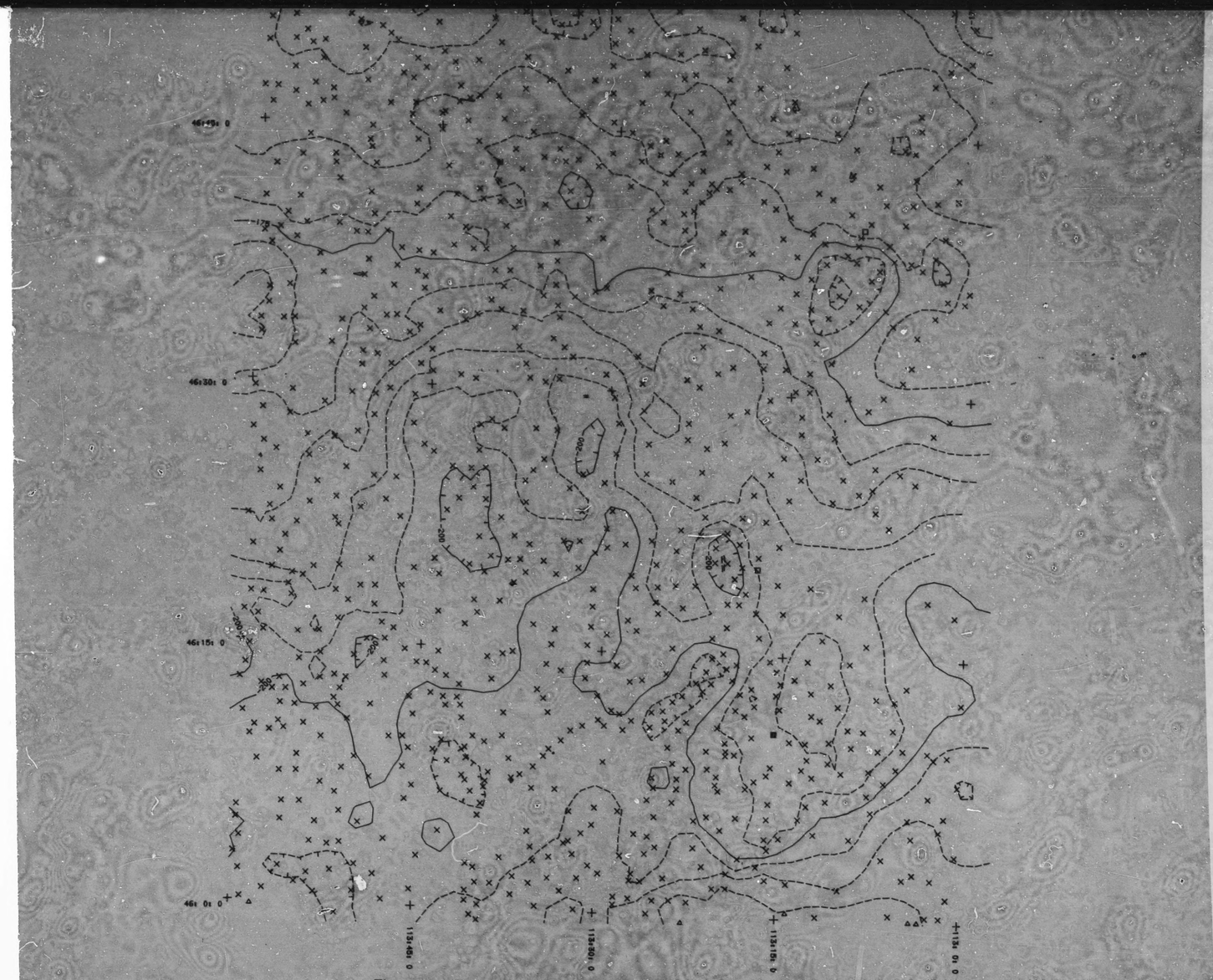


Figure 2. Preliminary Complete Bouguer Gravity Anomaly Map
West Half of the Butte 1° X 2° Quadrangle, Montana
1981
SCALE 1:250,000
0 5 10 MILES
0 5 10 15 KILOMETERS

GRAVITY STATION CODE
J.H. Hassemer
D.M. Kulik
H.E. Kaufmann
base station

EXPLANATION
-200- Index gravity contour
Intermediate gravity contour
Contour interval 5 milligals
Gravity contour enclosing area of low gravity